

# **Passive Solar Design**

## *An Extensive Bibliography*

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Prepared by  
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## PREFACE

Passive solar energy has the potential to reduce significantly the energy requirements for buildings in virtually every part of the United States over the next 2-5 years. To realize this potential the U.S. Department of Energy (DOE) has initiated a Passive Solar Program. Its objective is to significantly reduce the nation's use of nonrenewable energy sources through the application of passive solar energy. This will be accomplished by accelerating the development and utilization of passive solar heating, cooling, and process systems. The Passive Solar Program consists of two major areas: Technology Development and Technology Utilization. Technology Development incorporates physical studies and materials development, product development, and systems development. Technology Utilization includes commercialization readiness assessments, technology transfer, stimulation of technology delivery capability, and stimulation of market demand.

Recent studies regarding an assessment of the readiness of passive technology for commercialization have indicated the following principle conclusions:

- ° Technical readiness for passive solar heating has been demonstrated for a variety of designs, climates, and building types. Low maintenance and high reliability are key characteristics.
- ° Economic readiness for passive solar heating has been demonstrated in residential and commercial building applications. Already in 1978, passive solar heating compares favorably on a life-cycle basis with electric space heating in nearly all parts of the United States, with oil in most places, and with (regulated) gas in some places. Passive solar heating is generally predicted to be more economical on a life-cycle basis than active solar heating for the same delivered BTU (at low solar fractions).
- ° Although development of some specialized products would be helpful, most materials, manufactured products, and construction methods needed for commercialization are now commonly employed in building construction without serious environmental, net energy, or institutional drawbacks to be anticipated from their expanded use.
- ° The major barriers to commercialization are surmountable through an effective passive solar commercialization program.

While there is much activity underway throughout the United States in passive solar heating and cooling, these techniques are still not generally incorporated into most new and existing buildings. This lack of passive buildings may be generally traced to:

- ° The building industry's lack of awareness and understanding of present and possible passive solar applications.
- ° A lack of quantitative basis for evaluating design decisions such as estimating costs and performance.

- Presently higher first costs than conventional building design and construction.
- Artificially low fuel prices.

A key element in the commercialization of passive solar is the ability of the building community to effectively integrate passive solar approaches into the normal design process. The lack of marketable passive solar building designs and design tools was identified as an important obstacle to commercialization. The goals of commercialization will be met when passive solar design is accepted as 'standard practice' by both professionals and building trades. In other words, when common materials and passive solar products are combined in such a way as to maximize the benefits of environmental resources (e.g. sun, wind, earth, etc.) in the design of the building. Consequently, a key strategy is to develop various design tools which lead to development of designs and construction of buildings using passive techniques.

Built upon a foundation of research and development, the main structure of the commercialization effort is education and information dissemination. Education of the consumer will stimulate demand for passive solar systems. Education of the key participants in the building industry (designers, builders, developers, lenders, etc.) and expansion of existing professional design and trade organizations' education and information programs will greatly stimulate near-term use.

Part of this program involves the production of documents on passive solar concepts to increase the availability of information to designers and others in order to increase the professional capability to design passive buildings.

Aside from the present one these documents include:

- Passive Solar Design: A Short Bibliography for Practitioners  
Produced by the AIA Research Corporation for DOE;  
available from U.S. Government Printing Office.
- Survey of Monitored Passive Solar Buildings  
Produced by AIA Research Corporation for DOE;  
available from U.S. Government Printing Office.
- Passive Design Handbooks  
Under production for DOE; availability not yet known.
- Survey of Passive Solar Buildings  
Produced by the AIA Research Corporation for the U.S. Department of Housing & Urban Development; available from AIA Publications Fulfillment, 1735 New York Avenue N.W., Washington, DC 20006.
- Regional Guidelines for Building Passive Energy Conserving Homes  
Produced by the AIA Research Corporation for the U.S. Department of Housing & Urban Development; available from the National Solar Heating & Cooling Information Center, PO Box 1607, Rockville, MD 20850.

- Passive Solar Heating and Cooling Conference and Workshop, Albuquerque, NM, May 18-19, 1976. Proceedings. Available from National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. 355 p. \$10.50 (paper).
- 2nd National Passive Solar Conference, University of Pennsylvania, Philadelphia, March 16-18, 1978. Passive Solar: State of the Art. 3 vols. Available from Mid-Atlantic Solar Energy Association, 2233 Gray's Ferry Avenue, Philadelphia, PA 19146. \$20.00 (paper).
- 3rd National Passive Solar Conference, San Jose, CA, January 9-14, 1979. Proceedings; availability not yet known.

## INTRODUCTION

The purpose of this bibliography is to provide all those interested in passive solar design with the sources of information as available at the time of publication.

It is intended to give the researchers and practitioners access to the bulk of materials on topics relating to the use of passive heating and cooling techniques and an attempt has been made to be as comprehensive as possible.

"A Short Bibliography for Practitioners" containing basic easily accessible materials has already been published. New publications on the subject are appearing all the time. However, the present document will serve as a baseline for literature searches on this new material.

The bibliography is organized into two parts: by subject and by author. Part A is divided into twenty-one subject matter categories each with entries listed alphabetically according to the title. As with any cataloguing system, the categories are somewhat arbitrary and the assignment of particular entries to specific subject matter categories is similarly somewhat arbitrary. Therefore, if the first category consulted does not yield a reference on the desired subject, two or three related categories should be consulted. The books and articles listed will, of course, readily lead to additional sources.

Part B is alphabetically listed according to author. The information given about each entry is not as complete as in many bibliographies, but is sufficient for most practitioners or researchers to locate the documents desired. In the interest of space, many references have been abbreviated and listed before part one. In this way it should be possible with a minimum of persistence to locate the item desired and obtain a copy.

The Bibliography includes materials included in major computerized data banks as of January 1978. In the interest of completeness, the proceedings of the Second National Passive Conference have also been included. Later materials should be separately researched.

List of Abbreviations

- AAMA - Architectural Aluminum Manufacturers Association  
35 East Wacker Dr., Chicago, IL 60601
- ACI - American Concrete Institute  
P.O. Box 19150, Redford Sta., Detroit, MI 48219
- Agri Eng - Agricultural Engineering  
American Society of Agricultural Engineers  
Box 410, St. Joseph, MI 49085  
(Masoneilan Intl. Inc., Norwood, MA)
- AIA - American Institute of Architects  
1735 New York Ave., NW, Washington, D.C. 20006
- AIA/RC - AIA Research Corporation  
1735 New York Ave., NW, Washington, D.C. 20006
- AICHE - American Institute of Chemical Engineers  
345 East 47th St., New York, NY 10017
- AIP American Institute of Planners  
1776 Massachusetts Ave., NW, Washington, D.C. 20036
- AIRAH - Australian Institute of Refrigeration, Air Conditioning  
and Heating  
Brisbane Queensland, Australia  
Institution of Engineers Australia  
11, National Circuit, Barton, A.C.T.
- ALT SE - Alternative Sources of Energy  
Route 2, Box 90A, Milaca, MN 56353
- Appl Solar Energy - Applied Solar Energy (English Translation of  
Geoliotekhnika, sometimes Heliotechnology)  
Allerton Press, Inc.  
150 Fifth Ave., New York, NY 10011
- Archit Des - Architectural Design  
Standard Catalogue Co., Ltd.  
26 Bloomsbury Way, London WC1A 2SS, England
- Archit Rec - Architectural Record  
McGraw Hill, Inc.  
1220 Ave. of the Americas, New York, NY 10020
- ASAE - American Society of Agricultural Engineers, or,  
American Society of Automotive Engineers  
2950 Niles Road, P.O. Box 410, St. Joseph, MI 49085

- ASC - Association of Student Chapters (of AIA)  
1735 New York Ave., NW, Washington D.C. 20006
- ASHRAE - American Society of Heating, Refrigeration and Air  
Conditioning Engineers (formerly: ASHVE - American  
Society of Heating & Ventilating Engineers)  
345 East 47th St., New York, NY 10017
- ASISES - American Section - International Solar Energy Society  
State Road 401, Cape Canaveral, FL 32920
- ASME - American Society of Mechanical Engineers, Inc.  
345 East 47th St., New York, NY 10017
- ASUSI - Arizona State University Solar Energy Index  
Arizona State University, Tempe, AZ 85281
- BIA - Brick Institute of America  
1750 Old Meadow Rd., McLean, VA 22101
- BNWL - Batelle Pacific Northwest Laboratory  
Batelle Memorial Institute, Batelle Blvd., Richmond, VA 99352
- Building Res Pract - Building Research and Practice, ALSO,  
Batiment International  
Centre Scientifique et Technique du Batiment,  
4 Ave du Recteur Poincare, F-75782, Paris 16 France
- Build Int. - Build International  
Applied Science Publishers Ltd.  
Ripple Road, Barknig, Essex, England
- Chem Eng Prog - Chemical Engineering Progress  
American Institute of Chemical Engineers  
345 East 47th St., New York, NY 10017
- CIE - Commission International de l'Eclairage  
Central Bureau  
4, Ave de Recteur Poincare, F-75782, Paris 16 France
- CNRS - Center National de la Recherche Scientifique  
15 Quai Anatole-France, 75700 Paris, France
- Consulting Engr - Consulting Engineer  
Northwood Publications Ltd.  
Elm House, Elm St., London WC1OBP, England
- CRREL - Cold Regions Research and Engineering Laboratory (U.S. Army)  
Hanover, NH
- CSI - Construction Specification Institute  
1150 17th St., NW, Washington, D.C. 20036

- CSIR - Council for Scientific and Industrial Research, South Africa  
Scientia, P.O. Box 395, Pretoria 0001, South Africa
- CSIRO - Commonwealth Scientific and Industrial Research Organization, Australia  
314 Albert St., E. Melbourne 3002, Victoria, Australia
- DOE - Department of Energy  
20, Massachusetts Ave., NW, Washington, D.C. 20545
- EDB - Energy Data Bank (The following number indicates the year of data entry into the Bank)  
62  
Technical Information Center, Oakridge, TN 37830
- Energy Convers - Energy Conversion (formerly: Advanced Energy Conversion)  
Pergamon Press, Inc.  
Maxwell House, Fairview Park, Elmsford, NY 10523
- Eng News Record - Engineering News Record  
McGraw Hill, Inc.  
1221 Ave. of the Americas, New York, NY 10020
- Environ Conserv - Environmental Conservation  
Elsevier Sequoia S.A., Box 851, CH-1001, Lausanne 1, Switzerland
- ERDA - Energy Research and Development Administration (now DOE)  
20 Massachusetts Ave., NW, Washington, D.C. 20545
- GA Inst of Tech - Georgia Institute of Technology  
Solar Energy & Materials Technology Division  
Atlanta, GA 30332
- Geliotekhnika - Russian for Applied Solar Energy  
Applied Sciences Publishers Ltd.  
Ripple Road, Barknig, Essex, England
- Glass Ind - Glass Industry  
Magazines for INdustry  
777 Third Ave., New York, NY 10017
- GPO - (U.S.) Government Printing Office  
North Capitol & H Sts., NW, Washington, D.C. 20401  
(Superintendent of Documents, Washington, D.C. 20402)
- Heat, Piping, Air-Cond - Heating, Piping, Air-Conditioning  
Reinhold Publishing Co., Inc.  
600 Summer St., Stamford, CT 06904
- Heat, Vent - Heating and Ventilating News (formerly: Heating and Ventilating News and Heating and Ventilating Equipment Heating and Ventilating Equipment News)  
Maclaren Publishing Ltd., Davis House  
69-77 High St., Croydon, Surrey, England

- IEEE - Institute of Electrical and Electronics Engineers  
345 East 47th St., New York, NY 10017
- IMI - International Masonry Institute  
823 15th St., NW, Ste. 1001, Washington, DC 20005
- ISES - International Solar Energy Society  
State Road 401, Cape Canaveral, FL 32920
- JA - Article in Journal in ASU Library  
Arizona State University, Tempe, AZ 85281
- J Air Pollut Contr Assoc - Air Pollution Control Association Journal  
4400 Fifth Ave., Pittsburgh, PA 15213
- J Appl Meteor - Journal of Applied Meteorology  
American Meteorological Society  
45 Beacon St., Boston, MA 02108
- J Eng Power - Journal of Engineering for Power  
(Series A of the Transactions of the ASME) vol. 92.  
American Society of Mechanical Engineers  
345 East 47th St., New York, NY 10017
- J Heat Transfer - Journal of Heat Transfer (vol. 92)  
American Society of Mechanical Engineers  
345 East 47th St., New York, NY 10017  
Also issued as: American Society of Mechanical Engineers  
Quarterly Transactions
- J Quant Spectrosc & Radiat Transfer - Journal of Quantitative Spectroscopy  
and Radiation Transfer  
Pergamon Press, Inc., Journals Dept.  
Maxwell House, Fairview Park, Elmsford, NY 10523  
(Also: Headington Hill Hall, Oxford OX3 0BW, England)
- LASL - Los Alamos Scientific Laboratory  
University of California, Los Alamos, NM
- LLL - Lawrence Livermore Laboratory  
University of California  
P O Box 808, Livermore, CA 94550
- Mech Eng - Mechanical Engineering  
American Society of Mechanical Engineers  
345 East 47th St., New York, NY 10017
- MIT - Massachusetts Institute of Technology  
28, Carleton St., Cambridge, MA 02142
- M-ASEA - Mid-Atlantic Solar Energy Association  
2233 Grays' Ferry Ave., Philadelphia, PA 19146
- MSFC - Marshall Space Flight Center (NASA)  
Huntsville, AL 35804
- NASA - National Aeronautics & Space Flight Center  
400 Maryland Ave., SW, Washington, DC 20546

- NATO - North Atlantic Treaty Organization  
Brussels, Belgium
- NBS - National Bureau of Standards (Gaithersburg, MD)  
Route 1 - 70 SE Quince Orchard Rd., Washington, DC 20234
- NCMA - National Concrete Masonry Association  
6845 Elm St., McLean, VA 22101
- NESEA - New England Solar Energy Association  
P O Box 121, Townshend, VT 05353
- NMSEA - New Mexico Solar Energy Association  
P O Box 2004, Santa Fe, NM 87501
- NOAA - National Oceanic and Atmospheric Association  
6010 Executive Blvd., Rockville, MD 20852
- NPSC - National Passive Solar Conference, 2nd  
University of Pennsylvania, Philadelphia, March 16-18, 1978
- NSF - National Science Foundation  
1800 G St., NW, Washington, DC 20550
- NTIS - National Technology Information Service  
U.S. Dept. of Commerce, Springfield, VA 22161
- OARDC - Ohio Agricultural Research and Development Center  
Wooster, OH 44691
- ORNL - Oak Ridge National Laboratory  
Oak Ridge, TN 37830
- Penn Univ National Ctr for Energy, Mgmt, & Power - Pennsylvania  
University National Center for Energy, Management and Power  
Towne Building, Philadelphia, PA 19104
- Prog Arch - Progressive Architecture  
Reinhold Publishing Co., Inc.  
600 Summer St., Stamford, CT 06904
- PSHCC - Passive Solar Heating and Cooling Conference and Workshop  
Proceedings, 5/18-19/76, Albuquerque, NM  
Information available from National Technical Information Service  
U.S. Dept of Commerce, Springfield, VA 22161
- RAE - Royal Aircraft Establishment  
Farnborough, Hants, England
- RANN - Research Applied to National Needs  
Document Center  
1800 G St., NW, Washington, DC 20550
- Rev Alum - Revue de l'Aluminium  
Societe d'Edition et de Documentation des Alliages  
Legers, 5 Rue Saint-Phillippe-Du Roule, Paris (8e), France

- RSI - RSI (Roofing, Siding, Insulation)  
 Harcourt Brace Jovanovich Inc.  
 757 Third Ave., New York, NY 10017  
 Incorporating: Solar Contractor
- SAMPE - Society of Aerospace Materials and Process Engineers (formerly:  
 Society for the Advancement of Materials & Process Engineering  
 P O Box 613, Azusa, CA 91702
- SERI - Solar Energy Research Institute  
 1536 Cole Blvd., Golden, CO 80401
- Solar ED - Solar Energy Digest  
 17776, San Diego, CA 92117
- Sol Energy - Solar Energy  
 (International Solar Energy Society)  
 Pergamon Press, Inc.  
 Maxwell House, Fairview Park, Elmsford, NY 10523  
 Also: Headington Hill Hall, Oxford OX3 0B, England
- Sol Eng - Solar Engineering  
 Solar Engineering Publishers Inc.  
 8433 N. Stemmons, Suite 880, Dallas, TX 75247
- Sol Tech - Solar Technology (Reports)  
 P O Box 1648, Madison, WI 53701 \$75.00 Per Year
- SPIE - Society of Photo-Optical Instrumentation Engineers  
 (Seminar Proceedings 1963)  
 P O Box 10, Bellingham, WA 98225
- TAC - Technology Application Center  
 The University of New Mexico, Albuquerque, NM 87131
- TEA - Total Environmental Action  
 Church Hill, Harrisville, NH 03450
- TP - Technical Paper (at ASUSI)
- Univ Microfilm - University Microfilm International  
 300 N. Zeeb Rd., Ann Arbor, MI 48106
- USAF - United States Air Force  
 Air Science Tactics, Univ of MD, College Park, MD
- USDA - United States Department of Agriculture  
 Washington, DC 20250
- WMO - World Meteorological Organization  
 41 Ave. Giuseppe Motta CH-121, Geneva Zo, Switzerland  
 Distr. in U.S.: Unipub, Box 433, Murray Hill Station

PART A. LISTING BY SUBJECT  
(ALPHABETICAL BY TITLE WITH EACH SUBJECT)

I. COSTS, ECONOMICS, POLITICS

ARCHITECT DAVID WRIGHT ADVOCATES NATURAL SOLAR SPACE CONDITIONING; SOL Eng., Vol. 1, No. 6, Aug. 1976 pp. 14-15.

BARRIERS, ADVANTAGES, AND INCENTIVES FOR PASSIVE SOLAR DESIGN, Anderson, B., Sullivan, P., 2nd NPSC, pp. 736.

BULLETIN, New Mexico Solar Energy Association; Codes & Legislation: Articles on Codes, Energy Conservation and U-Values; Stickney, B., McGrew, J.L., Van der Meer, W., Bickle, L. and Rogers, B.; Vol.2, No. 11; Nov. 1977.

CALIFORNIA'S PASSIVE PROGRAM, Hunt, Marshall B., 2nd NPSC, pp. 694.

A COMPUTER SIMULATED PERFORMANCE AND CAPITAL COST COMPARISON OF "ACTIVE VS. PASSIVE" SOLAR HEATING SYSTEMS, Fraker, H; Glennie, W.L.; pp. 254-269; PSHCC, May 18-19, 1976.

DAYLIGHT UTILIZATION IN PASSIVE SOLAR SYSTEMS USING LIFE CYCLE COST-BENEFIT ANALYSIS, Griffith, J.W.; PSHCC.

DESIGN AND COST TRADEOFFS IN HEAVILY INSULATED SOLAR HEATED AND COOLED HOMES, Brazil, J.; Magee, J.; 15pp.; Avail: 18340 Vlack Road, Los Gatos, CA (TAC: ST77 33005).

DESIGN OF A LOW COST SOLAR HABITAT, Nelson, Lynn, 2nd NPSC, pp. 761.

ECONOMIC ANALYSIS OF THERMIC DIODE SOLAR PANELS, Stargardt, W.W., Buckley, B.S.; Masoneilan Int. Inc., Norwood, MA; AM. Soc. Mech. Eng.; Pap.; 76-WA, Sol. -7; Dec. 5, 1976; pp. 1-11.

ECONOMIC FEASIBILITY REACHED IN SOLAR HOME, Sun at Work; First Quarter, 1960; pp. 6-7.

ECONOMICS-ONE VIEW, Saunders, Norman; pp.247; PSHCC.

ECONOMIC RESULTS OF CERTAIN PASSIVE STRUCTURES, Saunders, N.B., paper presented, NESEA Better Thermal Utilization Conference, Hartford, CT, Sept. 8-11, 1977.

THE EDDY ADDITION: A NEW ENGLAND HYBRID, Brownlow, D., Price, T.L., III; 2nd NPSC, pp. 111.

EDUCATION WORKSHOP, Chairman: Cook, Jeffrey; pp. 331; PSHCC.

EDUCATIONAL INCENTIVES FOR PASSIVE SYSTEMS, Kennedy, R.J., 2nd NPSC, pp. 758.

ENERGY ANALYSIS AS A POLICY TOOL, Haggard, K., Knudtson, P., 2nd NPSC, pp. 691.

EVALUATION OF THE COMMERCIAL SOLAR RELIANT GREENHOUSE IN THE ROCKY MOUNTAIN REGION, Elfring, D., Lillywhite, M., Massie, C., 2nd NPSC, pp. 716.

FIRST COST ECONOMIC EVALUATION OF THE ATASCADERO SKYTHERM HOUSE,  
Haggard, Kenneth; pp. 250; PSHCC.

THE GROWTH OF FOLK SOLAR ARCHITECTURE IN NEW MEXICO, Van Dresser,  
P., 2nd NPSC, pp. 781.

INTERIM GUIDELINES AND CRITERIA FOR A STATE SOLAR ENERGY TAX  
CREDIT, State Energy Commission Alternatives Division  
Solar Office; Sacramento, CA; Jan. 5, 1978.

INTRODUCTION OF SOLAR ENERGY IN ARCHITECTURE AND URBANISM, Michel,  
Jacques J.P.; 2nd NPSC, pp. 20.

LEGISLATIVE MEASURES IN SUPPORT OF SOLAR ENERGY, Feingold, Adolph;  
Univ. of Ottawa, pres. at the Solar Energy Update 1977, 3rd  
Annual Gen. Mtg. and Conf., Solar Energy Society of Canada,  
Inc.; August 22-24, 1977.

MARKETING THE PASSIVE SOLAR HOME, Nichols, Wayne D., 2nd NPSC, pp 704.

MUNICIPAL ENERGY INDEPENDANCE, Morris, D., 2nd NPSC, pp. 874.

NEW SOURCES OF ENERGY AND ECONOMIC DEVELOPMENT, United Nations  
Dept. of Economic and Social Affairs, United Nations, New  
York; 1957.

OREGON SOLAR INCENTIVE PROGRAM: PASSIVE SYSTEMS, Baker, M.S.,  
Reynolds, J.S., 2nd NPSC, pp. 745.

PASSIVE EDUCATION FOR ACTIVE PROFESSIONALS, Cook J., 2nd NPSC, pp. 716.

PASSIVE SYSTEMS FOR SOLAR HEATING AND COOLING--HISTORICAL PERSPECTIVE,  
Yellott, John I., 2nd NPSC, pp. 1.

PASSIVE THERMAL CONTROL SYSTEMS: PHILOSOPHY AND REALITY, Hay H.R.;  
Skytherm Processes and Engineering, Los Angeles; from 1975  
International Solar Energy Congress and Exposition, ISES,  
Rockville, MD; 1975.

PRELIMINARY ECONOMIC EVALUATION OF GENERIC PASSIVE SOLAR ENERGY  
SYSTEM/BUILDING APPLICATIONS, Davidoff, P., Hirshberg, A.,  
Narayanan, P., 2nd NPSC, pp 699.

REPORT OF THE SOLAR PASSIVE SUBCOMMITTEE FOR THE MINNESOTA ENERGY  
AGENCY: REVIEW AND UPDATE, Pfister, P.J., 2nd NPSC, pp. 741.

THE ROLE OF THE AMERICAN SECTION OF ISES IN PASSIVE DEVELOPMENT,  
Bennett, Robert, 2nd NPSC, pp 750.

THE ROLE OF THE SOLAR ENERGY INSTITUTE, Franta, G., 2nd NPSC, pp. 725.

SEVEN DOLLARS A YEAR HEATS HOUSE WITH SUNSHINE IN BASEMENT, (Extra:  
Pop. Mech) 2-65, pp. 89-94; 4B0082; 1965; TP ASUSI.

SOCIAL CONCERNS FOR SOLAR APPLICATIONS FOR CITIES, Price, Travis L.,  
III, 2nd NPSC, pp 885.

SOCIO-ECONOMIC CONSIDERATIONS IN THE UTILIZATION OF SOLAR ENERGY  
IN UNDERDEVELOPED AREAS, Kapur, J.C.; UN: Rome; Gen. 8.

THE SOLAR CONSUMER-LIVING IN A GLASS HOUSE, Balcomb, S., 2nd NPSC,  
pp 778.

SOLAR ENERGY AND THE LAW: BARRIERS TO A SUNNIER TOMORROW, Thompson,  
Grant, 2nd NPSC, pp 850.

SOLAR ENERGY, ARCHITECTS AND DEVELOPERS IN 1978, Hasselman, Peter,  
M., 2nd NPSC, pp 888.

SOLAR ETHICS-URBAN FORM, Knowles, Ralph, 2nd NPSC, pp 840.

SOLAR HEATING & COOLING TAX CREDIT REQUIREMENTS, State Commission  
of Public Records and Archives, Santa Fe, NM.

SOLAR LEGISLATION; Smay, Elaine, Popular Science Solar Energy  
Handbook, Times-Mirror Magazines, 112 pp., 1978, \$1.75.

STATE SOLAR LEGISLATION, National Solar Heating and Cooling Infor-  
mation Center, Rockville, MD.

SURVEY OF STATE SOLAR INCENTIVE LEGISLATION, Goodnight, Jill, 2nd  
NPSC, pp 727.

TECHNOLOGY UTILIZATION: INCENTIVES AND SOLAR ENERGY, Science;  
Feb. 28, 1975; pp. 707.

WHY AN OWNER BUILT GREENHOUSE IS COMPETITIVE WITH GAS FOR HOME  
HEATING IN NORTHERN NEW MEXICO, Kolstead, Charles D.;  
NMSEA Bulletin; Jan. 1977; Vol. 2, No. 1; pp 5.

II. DESIGN CONCEPTS

- ACTIVE VERSUS PASSIVE SYSTEMS-A DESIGN RATIONALE FOR THE SELECTION OF PASSIVE SYSTEMS BASED ON A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY, ECONOMICS AND THERMAL NETWORK ANALYSIS, Converse, A.O., Gillett, D., Heldt, R., Taff, D.C., 2nd NPSC, pp 828.
- ALTERNATIVE NATURAL ENERGY SOURCES IN BUILDING DESIGN, Davis, A.J., and Schubert, R.P.; Passive Energy Systems, Blacksburg, VA; Van Nostrand Reinhold Co., New York; 1977.
- ALTERNATIVES TO COLLECTING SUNSHINE IN THE SHADE: A BRIEF SURVEY OF METHODS PRESENTLY AVAILABLE FOR REDUCING FUEL CONSUMPTION IN NEW RESIDENTIA: CONSTRUCTION, Bliss, Raymond W.; Donovan & Bliss; Chocorua, Harrsville, NH; 1974.
- APPLICATION OF SOLAR TABLES TO SHADING COEFFICIENTS FOR HORIZONTAL SUNBREAKS, ISES 70; 4D10002; 1970; 6pp TP ASUSI.
- APPROPRIATE SYSTEMS FOR HEATING BUILDINGS: THE CASE FOR PASSIVE SOLAR WITH MOVABLE INSULATION, Cole, W.J., Kinney, L.F., 2nd NPSC, pp 795.
- ARCHITECTURAL PLANNING AND DESIGN ANALYSIS OF ENERGY CONSERVATION IN HOUSING THROUGH THERMAL, Cox; 4DA0037; pp 62; 1972; TP ASUSI.
- ARCHITECTURAL PROBLEMS AND SOLUTIONS TO NATURAL INTEGRATED SYSTEMS, Finholm, David, 2nd NPSC, pp 102.
- ARCHITECTURE OF A PASSIVE SYSTEM OF DIURNAL HEATING AND COOLING, Haggard, K.L.; Calif. Polytechnic State Univ.; ISES, Rockville, MD; International Solar Energy Congress and Exposition; 1975.
- ASSESSMENT OF SOLAR HEATING AND COOLING TECHNOLOGY, Balcomb, J. Douglas and Perry, Joseph E., Jr.; Los Alamos Science Lab. of the Univ. of CA; May 1977.
- BEYOND PASSIVE DESIGN: TOWARD AN INTEGRATIVE CONSERVATION TECHNOLOGY, Watson, Donald; 2nd NPSC, pp 30.
- BIO-SHELTER: ECOLOGICAL DESIGN CRITERIA FOR BUILDINGS, Chahroudi, Day and Wellesley-Miller, Sean; Architecture Plus, Informat Publishing Co., NY; Nov.-Dec., 1974.
- CAPTURING NATURAL ENERGY SOURCES-SOLAR AND TERRESTRIAL RADIATION, Trombe, F.; Centre National de la Recherche Scientifique; Journal des Recherches; pp. 527-551; Dec. 1964. (TAC: ST74 10096).
- CLIMATE-BASED METHOD OF SOLAR ENERGY HOME DESIGN, Michal, C.J. and Anderson, B.N.; Total Environmental Action, Harrisville, NH; ISES; Rockville, MD; 1975.

- CLIMATE BASED SOLAR HOME DESIGN: HOT AND HUMID CHARLESTON, SC,  
Scully, S.C.; Total Environmental Action, Inc., Harrisville,  
NH; Proc of the Second Southeast Conf on Appl of Solar  
Energy, Baton Rouge, LA; Apr. 19-22, 1976. (TAC: ST77 33076)
- COMMON SENSE APPLICATIONS FOR SOLAR ENERGY IN THE HOME, Butler,  
Barry L.; Sandia Labs, Albuquerque, NM; pp 10; Jan. 1977.
- COMPUTATION OF ABSORBER AREA, DeBremaecker, J. Cl.; Solar Energy;  
Vol.2, No.1; 1958. (TAC: ST74 10504)
- THE CONDITIBUTION OF SOLAR GAIN TO SPACE HEATING, Davies, M.G.;  
Liverpool Univ., Liverpool, England; Solar Energy, Vol 18;  
pp. 361-367; No 4, 12 refs; 1976; Additional infor: Inter-  
national Solar Energy Congress and Expo., Univ. of California,  
Los Angeles; July 28-Aug. 1, 1975; Research supported by the  
Ministry of Public Building and Works; A76-43186. (TAC: ST76  
55147).
- CORRELATIONS FOR SEVERAL IMPORTANT DESIGN PARAMETERS OF LAMINAR-  
FREE CONVECTIVE FLOW WITHIN THE TROMBE WALL CHANNEL, Akbari,  
H., Borgers, T.R., 2nd NPSC, pp 570.
- CRITICAL PERFORMANCE STANDARDS FOR PASSIVE SOLAR BUILDINGS, Holton,  
John D., 2nd NPSC, pp 294.
- DESIGN CONSIDERATIONS FOR SOLAR HEATING, Cunningham, R.; Heat, Ven-  
tilation Engineering & Air Condition; Vol. 49; pp. 9-12; NO 578,  
9 refs; Sept. 1975. (TAC: ST76 55011).
- DESIGN CRITERIA FOR SOLAR-HEATED BUILDINGS, Barber, E.M. and Watson,  
D.; Sunworks, 669 Boston Post Road, Guilford, CT; pp 55; 1975;  
\$10.00.
- DESIGN CRITERIA FOR SOLAR-HEATING HOUSE, Olgay, A.; United Nations,  
Rome; E35-S93.
- A DESIGN SIZING PROCEDURE FOR DIRECT GAIN, THERMAL STORAGE WALL,  
ATTACHED GREENHOUSE, AND ROOF POND SYSTEMS, Mazria, E.,  
2nd NPSC, pp 390.
- DESIGNED FOR DIRECT SOLAR HEATING, Ramsey, W.W.; Consulting Engr.  
(St. Joseph, MI.) Vol. 9; pp. 127-239; No. 11; Nov. 1957.  
(TAC: St74 55010).
- DESIGNING AND BUILDING A SOLAR HOUSE, Watson, Donald; Garden Way  
Publisher; Charlotte, VT, 1976.
- DESIGNING AND BUILDING A SOLAR HOUSE, Wright, David; pp 143; PSHCC.
- DESIGN METHODOLOGIES FOR ENERGY CONSERVATION AND PASSIVE HEATING  
OF BUILDINGS UTILIZING IMPROVED BUILDING COMPONENTS, MIT  
Dept. of Agriculture, Massachusetts Institute of Technology,  
Cambridge, MA.

DESIGN PROCEDURE FOR A SOLAR HOUSE, Sharon, G.S.; Prog. Archit.; pp. 88-93; EDB-77:060617; March 1952. (TAC: ST77 33077)

DESIGN STRATEGIES FOR SOLAR CONTROL, Cook, Jeffrey; pp. 63, PSHCC.

A DESIGN TOOL TO ASSESS ROOM AIR TEMPERATURES OF A PASSIVELY HEATED SPACE, Lebens, Ralph M., 2nd NPSC, pp 549.

THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, Bedrick, J.R., Heerwagan, D.R., Millet, M.S., Spencer, G.S., Varey, G.B., 2nd NPSC, pp 365.

DICTIONARY OF WORLD ACTIVITIES AND BIBLIOGRAPHY OF SIGNIFICANT LITERATURE, Association for Applied Solar Energy; Phoenix AZ; 1959.

DIRECT USE OF THE SUN'S ENERGY, Daniels, Farrington; Random House, Inc., 201 E. 50th St., New York, NY 10022; pp 271; \$1.95.

ECONOMIC RESULTS OF CERTAIN LUNOVATIVE INTEGRATED SOLAR HEATING SYSTEMS AS OF March 1978, Saunders, N. 2nd NPSC, pp 806.

EFFECTS OF CONTROLS ON WATER WALL PERFORMANCE, Clinton, J.R., Hendricks, E., Langenbacker, F., Sebald, A.V., 2nd NPSC, pp 555.

THE EFFECTS OF SELECTED PARAMETERS ON THE HEATING AND COOLING PERFORMANCE OF A PASSIVE SOLAR HOUSE, Mancini, T.R., Miller, W.C., 2nd NPSC, pp 544.

ELEMENTS OF SOLAR DESIGN, Davis, Paul & Mary; 4DA0036; pp 1; 1974 ASUSI.

ENERGY AND FORM, Knowles, Ralph L.; The MIT Press; Cambridge, MA; 1974.

ENERGY ENVELOPE SYSTEM, Pinney, Neil-AIA; Selkowitz, Stephen-ISES, Stenhouse, Douglas-AIA; Earth Life System Design, 136 13th St., Seal Beach, CA 90740; June 1947.

ENERGY PRIMER, Portola Institute; Fricke-Parks Press, Inc.; 1974.

ENERGY, TECHNOLOGY, AND SOLAR-ARCHITECTURE, Hay, H.R.; Sky Therm Processes and Engineering, Los Angeles; Mech. Eng., Vol 95, No. 11, pp 18-22; Nov. 1973.

ENGINEERING EVALUATIONS OF CONTROLS FOR PASSIVE SOLAR HEATING AND DOOLING SYSTEM, Tichy, J.A., 2nd NPSC, pp 501.

ESTIMATION OF HEAT ENTERING BUILDINGS WITH PROCHES, Kulojan, L.T. and Melikjan, S.A.; Heliotechnology (Applied Solar Energy); Vol. 5, No. 6; pp 55; 1969. (TAC: ST74 50250)

ESTIMATING SUN HEAT THROUGH WALLS AND ROOFS; Heat. Vent., Vol. 33, pp 58A-58B; EDB-77:047311; 1936. (TAC: ST77 34014).

THE EVALUATION OF PASSIVELY-CONTROLLED, ALTERNATE BUILDING DESIGNS BY THE THERMAL SIMULATION COMPUTER PROGRAM UWENSOL, Emery, A.F., Heerwagen, D.R., Kippenhan, C.J., Varey, G.B., 2nd NPSC, pp 357.

EVALUATIONS OF PASSIVE SOLAR HEATING AT THE NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY, Hamilton, B., 2nd NPSC, pp 732.

THE FARALLONES INSTITUTE STUDY OF FIVE PASSIVE AND HYBRID SPACE HEATING SYSTEMS, Calthorpe, Peter, 2nd NPSC, pp 298.

FITTING A HANDLE AND SCALE ON THERMAL LAG TIME, Moore, G.L., 2nd NPSC, pp 565.

FOURTEEN ARTICLES ON ENERGY FROM THE SUN, Environmental Action of Colorado; The Solar Resource: A Collection of Articles From Various Periodicals; \$3.95.

FUTURE ENERGY SAVING DESIGNS AND CHALLENGES IN BUILDING CONSTRUCTION, Jones, R.A.; Univ. of Illinois; Presented at NSF RANN/ASHRAE Conf. of Energy Conservation in Commercial, Residential and Industrial Buildings at Ohio State Univ.; Survey Report; pp 265; May 5-7. 1974. (TAC: ST76 50049)

GALVANIZED STEEN ROOF CONSTRUCTION FOR HEATING, Sobel, A.T. and Buelow, F.H.; 4DE0008; 1962; pp 6; TP ASUSI.

GETTING DOWN TO FUNDAMENTALS, Heat. Vent.; Vol 33; pp 43-45; 1936; EDB; 77: 047366. (TAC: ST77 34015)

GLAZED AREA, INSULATED AND THERMAL MASS IN PASSIVE SOLAR DESIGN, Michal, C.J.; Total Environmental Action, Inc., Harrisville, NH; pp 8. (TAC: ST77 31022).

HEAT LOAD CALCULATION FOR SOLAR RADIATION GAIN, Heindle, W., Koch, H.A.; Gesundheits Ing, Vol. 97, pp 301-304 & 309-314, No. 12, 8 refs; In German; Dec. 1976. (TAC: ST77 34020).

HOUSES, Keck, G.F.; Archit. Rec; pp. 91-93; Jan. 1941; EDB-77: 053830. (TAC: ST77 33068).

THE IMPACT OF ACTIVE AND PASSIVE BUILDINGS ON UTILITY PEAK LOADS, Abrash, M., Kohler, J.T., Sullivan, P.W., Wirtshafter, R.M., 2nd NPSC, pp 811.

INFLUENCE OF AZIMUTHAL ORIENTATION ON COLLECTIBLE ENERGY IN VERTICAL SOLAR COLLECTOR BUILDING WALLS, Lorsch, H.G., Niyogi, B.; Report NSF/RANN/SE/GI27976/TR72/18, under NSF/RANN Grant No. GI 27976; Conservation & Better Utilization of Electric Power by Means of Thermal Energy Storage & Solar Heating; Aug. 1971; Univ. of Penn; National Center for Energy Management & Power and Towne School of Civil & Mechanical Engineering; Philadelphia, PA 19104. (TAC: ST74 50012).

- INTEGRATIVE DESIGN: THE RAVEN RUN SOLAR HOUSE, Levine, R.S., 2nd NPSC, pp 141.
- AN INTERACTIVE COMPUTER-AIDED SYSTEM FOR PASSIVE SOLAR DESIGN, Milne, Murran, 2nd NPSC, pp 539.
- KELBAUGH HOUSE: RECENT PERFORMANCE, Kelbaugh, D., 2nd NPSC, pp 69.
- LOW COST DATA ACQUISITION AND DATA PROCESSING SYSTEM, Michels, Tim, 2nd NPSC, pp 452.
- LOW COST ENERGY EFFICIENT SHELTER FOR THE OWNER AND BUILDER, Eccli, E.E., ed.; Rodale Press, Inc.; Emmaus, PA, 18049, 1976.
- MARKET ANALYSIS OF THE THERMIC DIODE SOLAR PANEL, Buckley, S., Dahl, J., 2nd NPSC, pp 785.
- METHOD FOR DETERMINING DAILY TOTAL HEAT FROM DIRECT SOLAR RADIATION ENTERING STRUCTURE, Kuvshinov, Yu.Ya., Malyavina, E.G.; Kuibyshev Moscow Civil Engineering Institute; Appl. Solar Energy, USSR-English Translation; Vol. 9, No. 4, 1973, pp 133-16.
- METHODOLOGY FOR THE DETERMINATION OF OVERALL HEAT LOSSES AND THERMAL INERTIA FROM EXPERIMENTS ON COMPLETED HOUSES, Proskiw, G., Northern Housing Committee, Univ. of Manitoba, Winnipeg, Manitoba; 1976.
- A MODEL DESIGN PROCESS FOR PASSIVE SOLAR ARCHITECTURE, Levin, Dan; 2nd NPSC, pp 57.
- A MODEL FOR THE DEROB/BSOLE SYSTEM, Arumi-Noe, F., 2nd NPSC, pp 529.
- MODELING PASSIVE BUILDING USING TRNSYS, Abrash, M., Kohler, J., Sullivan, P., Wirtshafter, R., 2nd NPSC, pp 398.
- MODELING THE ATASCADERO HOUSE, Niles, Phillip; pp 183, PSHCC.
- MONTHLY SOLAR-LOAD RATIO CORRELATIONS FOR ANNUAL PASSIVE SYSTEM PERFORMANCE-SOUTH MASS WALLS, Los Alamos Scientific Lab. Univ. of Calif. Office Memo, Dec. 23, 1977, McFarland, R.D., Q-11-77-40.
- NEW LOW-COST SOURCES OF ENERGY FOR THE HOME, Clegg, Peter; Garden Way Publishing, Charlotte, VT; 1975.
- OTHER HOMES AND GARBAGE, Leckie, Jim et. al.; Charles Scribner & Sons, 597 Fifth Ave., New York, NY 10017; 302pp, 1975; \$9.95.
- PACIFIC REGIONAL SOLAR HEATING HANDBOOK, Balcomb, J.D., Grimmer, D.P., Hedstrom, J.C., Kerr, K.C.; Los Alamos Scientific Lab, NM; March 1976, Dep. NTIS; LA--6242-MS; \$7.50.
- PASSIVE COST AND PERFORMANCE COMPARISONS, Kohler, J., Pretnam, B., 2nd NPSC, pp 800.

PASSIVE ENERGY SYSTEMS, Crowther, Richard, pp 339; PSHCC.

PASSIVE ENERGY TECHNOLOGIES FOR RESIDENTIAL CONSTRUCTION, Kroner, W.M., and Haviland, D.S.; Center for ARCHITECTURAL Research, School of Architecture, Rensselaer Polytechnic Insititute, Troy, NY 12181; 500 pp, \$5.00.

PASSIVE SOLAR ARCHITECTURE, Haggard, K., Arizona State Univ. Tempe Coll. of Architecture, 1975, from Proceedings of the ASC/AIA Forum '75 Solar Architecture, Franta, G., Ed.

THE PASSIVE SOLAR ENERGY BOOK, Mazria, E., Rodale Press, Emmanus, PA, In Press, avail. by Sept. 1978 in paper, hardback & professional edition.

PASSIVE SOLAR HEATED HOUSE: DESIGN AND CONSTRUCTION, Cook, Jeffrey; Wade, Herb; Ariz. State Univ., Tempe; Sharing the Sun; Solar Technology in the Seventies; Jt Conf of the Int Sol Energy Soc. Am Sect and Sol Energy Soc of Can, Inc., Winnipeg, Manitoba, Aug. 15-20, 1975, Publ. by Int. Sol Energy Soc. Am. Sect. Cape Canaveral, FL 1976, Vol. 4, pp 8-14.

PASSIVE SOLAR HEATING AND COOLING, Conference, Los Alamos Scientific Laboratory, Los Alamos, NM.

PASSIVE SOLAR HEATING AND COOLING SYSTEMS, CLASSIFICATION; Yellott, J.I.; ASHRAE Transactions, 1977, Vol. 83, Part 2.

PASSIVE SOLAR HEATING DESIGN FOR CANADA, Jones, R.E., Jr., Dept. of Physics, Lakehead Univ., Thunder Bay, Ont., Tymura, E.J., 3rd Ann. Gen. Mtg. and Conf., Solar Energy Society of Canada, Inc.

PASSIVE SOLAR HEATING OF BUILDINGS, Balcomb, J. Douglas; Hedstrom, James C.; and McFarland, Robert D.; Workshop on Solar Energy Applications; Associated Universities, Inc.; 6/27-7/31, 1977; Los Alamos Scientific Lab., Univ. of Calif., Los Alamos, NM.

A PASSIVE SOLAR SIMULATION FOR GENERAL USE, Richards, C.H., 2nd NPSC, pp 349.

PASSIVE SOLAR SYSTEMS DEVELOPMENT, Balcomb, J. Douglas; 1976 Federal Workshop of the National Bureau of Standards; Spet. 7, 1976.

PASSIVE TESTING AT LOS ALAMOS, Balcomb, J.D., McFarland, R.D., Moore, S.W., 2nd NPSC, pp 602.

PATHWAYS OF THE SUN, Freese, E.I., American Architect, Nov., 1934.

PERFORMANCE OF PASSIVE TEST UNITS IN BUTTE, MONTANA, Corbett, Bob, Paluriter, L., Wheeling, T., 2nd NPSC, pp 591.

PRACTICAL ASPECTS OF SOLAR HEATING: A REVIEW OF MATERIALS USE IN SOLAR HEATING APPLICATIONS, Grimmer, D.P.; Moore, S.W., Univ. of Calif., Los Alamos Sci. Lab, Natl SAMPE Tech Cong Vol. 7 Part 2, 1975, for 7th Natl SAMPE Tech Conf: Mater Rev '75 Suppl, Albuquerque, NM; Oct. 14-16, 1975, pp23-34.

PRACTICAL DEVICES FOR THE UTILIZATION OF SOLAR ENERGY, Khan, E.U., Solar Energy, Vol. 8:17, No. 1, 1964. (TAC: ST74 10055)

PREDICTING THE PERFORMANCE OF PASSIVE SOLAR HEATED BUILDINGS, Mazria, E., Baker, M.S., Wessling, F.C., Center for Environmental Research, School of Architecture and Allied Arts, Univ. of Oregon, Eugene, OR 97403.

PREDICTING THE PERFORMANCE OF PASSIVE SOLAR HEATED BUILDINGS: A TWO YEAR STUDY, Baker, S., Mazria, E., 2nd NPSC, pp 393.

PREDICTION PERFORMANCE OF A MINIMAL STORAGE PASSIVE SOLAR HOUSE: THE CROSLY HOME, Shapiro, Andre M., 2nd NPSC, pp 86.

PRELIMINARY PERFORMANCE OF THE MIT SOLAR BUILDING 5, Johnson, T.E., 2nd NPSC, pp 610.

PROFESSIONAL DESIGN TOOLS-THE BUILDING BLOCKS FOR PASSIVE SOLAR DESIGN, Loftness, Vivian, 2nd NPSC, pp 765.

A QUANTITATIVE METHOD FOR THE DESIGN OF BUILDINGS WITH COMFORTABLE MICROCLIMATES BY PASSIVE CONTROL OF SOLAR EFFECTS, Agha, M.F., Lior, N., McCleary, P., 2nd NPSC, pp 404.

REPORT OF THE MIT SOLAR ENERGY WORKING GROUP, PROCEEDINGS OF A WORKSHOP HELD IN CAMBRIDGE, MASSACHUSETTS, JULY 14-25, 1975; MIT Energy Lab, Cambridge, MA 02139; 1976; \$4.00.

A SIMPLE DIRECT GAIN PASSIVE HOUSE PERFORMANCE PREDICTION MODEL, Niles, P.W.B., 2nd NPSC, pp 534.

A SIMPLE EMPIRICAL METHOD FOR ESTIMATING THE PERFORMANCE OF A PASSIVE SOLAR HEATED BUILDING OF THE THERMAL STORAGE WALL TYPE, Balcomb, J.D., McFarland, R.D., 2nd NPSC, pp 377.

A SIMPLIFIED METHOD FOR CALCULATING REQUIRED SOLAR COLLECTOR ARRAY SIZE FOR SPACE HEATING, Balcomb, J. Douglas and Hedstrom, James C., Los Alamos Sci. Lab., Los Alamos, NM; 1976.

SIMPLIFIED SIMULATION TECHNIQUES, Michal, Charles, 2nd NPSC, pp 291.

SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-COMPARISON WITH TEST ROOM RESULTS, Balcomb, J.D., McFarland, R.D., Moore, S.W.; LASL, Presented at the 1977 ISES, American Section Annual Meeting, June 6-10, 1977. (TAC: ST77 31072).

SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-PRELIMINARY RESULTS, Balcomb, J.D., Hedstrom, J.D., McFarland, R.D., Univ. of Calif., Los Alamos Sci. Lab., NM; Solar Energy Vol. 19, No. 3; 1977, pp 277-282.

SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-THE INFLUENCE OF CLIMATE AND GEOMETRY ON PERFORMANCE, Balcomb, J.D., McFarland, R.D.; LASL, presented at the 1977 ISES, American Section Annual Meeting, June 6-10, 1977. (TAC: ST77 31071)

SIMULATION AS A DESIGN TOOL, Balcomb, J.D., Hedstrom, J.C. and McFarland, R.D., Los Alamos Sci. Lab., Los Alamos, NM; 1976.

SIMULATION OF PASSIVE SOLAR BUILDINGS, Balcomb, J.D., 2nd NPSC, pp 288.

SIMULATION OF THE THERMAL BEHAVIOR OF A ROOF-POND TYPE RESIDENCE, Rogers, W., Treat, C.H., 2nd NPSC, pp 560.

SKYLIGHT PROGRAM COMPUTER OUTPUT, Rollm and Haas Co., Plastics Engineering Laboratory; Influence of Skylights on Building Energy Systems; 4 pp.

SOLAR AND AEOLIAN ENERGY, Spanides, A.G. and Hatzikakidis, A.D., Plenum Press, New York, 1964; Proceedings of Advanced Study Institute for Solar and Aeolian Energy, Sounion, Greece; Greek Atomic Energy Commission and the Hellenic Scientific Society of Solar and Aeolian Energy, 1961.

SOLAR ARCHITECTURE IN ARIZONA, Cook, Jeffrey; pp 79, PSHCC.

SOLAR DESIGN, Bullen, D.C.; Solar Radiation Considerations in Building Planning and Design, Natl. Academy of Sciences, Washington, DC; 1976.

SOLAR DWELLING DESIGN CONCEPTS, Super. of Documents, U.S. Govt. Printing Office; Washington, DC 20402; No. 023-000-00334.1, 46 pp; May 1976; \$2.30.

SOLAR ENERGY, Baer, Steve; 1973; 30 pp; Someworks Corp., P O Box 712, Albuquerque, NM 87103; \$3.00.

SOLAR ENERGY, Rau, Hans, Ed., New York; MacMillan, 1964; 171 pp; \$9.95.

SOLAR ENERGY AND ARCHITECTURE, Page, J.K., Royal Institution of Great Britain; Proceedings, Vol. 47: 303-348; 13 refs., 1974, A75-31698. (TAC: ST76 50057).

SOLAR ENERGY AND HOUSING, Giffels Associates, Detroit; 150 pp; \$15.00.

SOLAR ENERGY AND SHELTER DESIGN, Anderson, Bruce; Total Environmental Action, Church Hill, Harrisville, NH, 03450, 1973; 150 pp.

SOLAR ENERGY: THE ARCHITECTURAL IMPERATIVE, Crowther, Richard L., ASHRAE Journal; Vol. 17, No. 11, 1975.

SOLAR ENERGY AVAILABILITY AND INSTRUMENTS FOR MEASUREMENTS, Blanco, P. UN: Rome; E135-GrS11.

SOLAR ENERGY: FUNDAMENTALS IN BUILDING DESIGN, Anderson, Bruce; McGraw Hill Book Co., New York, San Francisco, 1977.

SOLAR ENERGY HOME DESIGN; Manager, AIA Publications Marketing; 1735 New York Avenue, N.W., Washington, DC 20006; \$12.75.

SOLAR ENERGY HOME DESIGN IN FOUR CLIMATES, Total Environmental Action, Church Hill, Harrisville, NH 03450, 1975; 198 pp. \$15.00.

SOLAR ENERGY IN RESIDENTIAL DESIGN AND USE, Ailken, Dr. Donald W.; Center for Solar Energy Applications, San Jose, CA; Jan. 1977; 22 pp.

SOLAR ENERGY THERMAL PROCESSES, Duffie, J.A., and Beckman, W.A.; New York: John Wiley; 1974; 386 pp. \$16.95.

SOLAR ENERGY UTILIZATION FOR HEATING AND COOLING, Yellott, J.I.; Arizona State Univ., Tempe; 1974; GPO \$.70.

SOLAR EXPERIMENTS WITH PASSIVE RETROFIT, Johnson, W.C., Keller, S.F., Sedrick, A.V., 2nd NPSC, p. 81.

SOLAR HEATING FOR HOUSES, Olgyay, A., Telkes, M.; Prog. Archit.; Mar. 1959.

SOLAR HEATING HANDBOOK FOR LOS ALAMOS, Balcomb, J.D., Hedstrom, J.C., Moore, S.W., Rogers, B.T.; Los Alamos Sci. Lab, NM; 1975; Dep. NTIS; CONF-750257-1) \$4.50.

THE SOLAR HOME BOOK: HEATING COOLING AND DESIGNING WITH THE SUN, Anderson, Bruce with Riordan, M.; The Solar Bookshop; Total Environmental Action, Inc.; CHURCH Hill, Harrisville, NH 03450; 1976; \$7.50.

SOLAR ORIENTED ARCHITECTURE, Arizona State University; Available from; Manager, AIA Publications, Marketing, 1735 New York Ave., N.W., Washington, D.C., 20006, \$12.50, 142 pp., 1975. (soft cover).

SOLAR PRIMER, Gorham, J.S., Jr.; Construction Eng. Research Lab.; Champaign, IL; Ind. Forum Vo. 7, No. 2-3; 1976.

SOLAR PRIMER ONE, SOLAR ENERGY IN ARCHITECTURE-A GUIDE FOR THE DESIGNER; SOLARC, Solar Energy in Architecture; P.O. Box 4233; Whittier, CA 90607; 100 pp.; 1975; \$10.25.

SOLAR SPACE HEATING AT HIGH ALTITUDE CONDITIONS, Gupta, J.P.,  
Chopra, R.K.; Defense Laboratory; Jodhpur, India; Solar Energy,  
V 18:51-57, N1; 15 refs; 1976; A76 26147. (TAC: ST76 55097)

SOME SPECULATIVE IDEAS-APPENDIX A; Anon, AIP Conf., Proc for Meet,  
Princeton Univ., NJ; pp. 300-303; W25, 6 refs, Jul. 8-Aug. 2,  
1974.

SPATIAL DISTRIBUTION AND CHARACTERISTICS OF TEN HIGHMASS EARTH  
MATERIALS WITHIN THE STATE OF TEXAS, Fisk, P., 2nd NPSC,  
p. 817.

STATE OF THE ART IN PASSIVE SOLAR HEATING AND COOLING, Balcomb,  
J. Douglas; 2nd NPSC, p. 5.

THE STRUCTURAL DESIGN OF SOLAR HOUSES REPRESENTED WITH THE AID OF  
THE AUSTRIAN SOLAR HOUSE AS AN EXAMPLE, Panzhauser, E.,  
Fantl, K.; Deutsche Gesellschaft fuer Sonnenergie; Graefelfing,  
West Germany; pp. 197-216; 1976; In Solar Heating; Meeting,  
1st; Goettingen, West Germany; Feb. 23-24, 1976; Reports,  
A 76-45301 23-44, A76-45311; In German. (TAC: ST77 33016)

SUMMARY OF THE PASSIVE SOLAR HEATING AND COOLING CONFERENCE,  
Balcomb, J. Douglas; Los Alamos Scientific Laboratory;  
Los Alamos, NM; 1976.

THE SUNDWELLINGS, VanDresser, Peter, p. 270. NMSEA.

SUNSPOTS, COLLECTED FACTS AND SOLAR FICTION, Baer, Steve;  
Biotechnic Press; P.O. Box 26091, Albuquerque, NM; 1975.

TEACHING REGIONAL PASSIVE CLIMATIC DESIGN, Fisk, D.B., 2nd NPSC,  
p. 773.

TESTING AND SIMULATION OF PASSIVE SOLAR SYSTEMS, Duncan, Ian,  
Prowler, D, 2nd NPSC, p. 581.

THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES  
FOR PASSIVE BUILDINGS, Angel, W., Ducas, W., Holton, J.,  
Streed, E., 2nd NPSC, p. 411.

III. DESIGN EXAMPLES  
(Does not include Greenhouses)

ASSESSMENT OF A SINGLE FAMILY RESIDENCE SOLAR HEATING SYSTEM IN A SUBURBAN DEVELOPMENT SETTING, Phillips, J.D., Colorado Springs Dept of Public Utilities, CO; NSF/RA/N-75/078, 244 pp, J1 10, 1975, PB-246 141/6WE. (TAC: ST76 55035)

ATASCADERO RESIDENCE, Hay, Harold, p 101, PSHCC.

AT LAST: A BEAUTIFUL SOLAR HOME, Olcott, M., Mother Earth News, Vol 43, 1977, pp 68-70.

BIO-SOLAR SYSTEMS IN URBAN AREAS, Olkowski, W.H., 2nd NPSC, p. 870.

CONSERVATION OF DOMESTIC SPACE HEAT AND ITS RELATION TO SOLAR HEATING, Sinden, F., 2nd NPSC, p. 435.

CONTROLLED EXPERIMENTS USING PASSIVE SOLAR TECHNIQUES IN THE PASSIVE NORTHWEST, Allen, R.B., 2nd NPSC, p. 431.

CORRALES RESIDENCE, Baer, Steven, p. 200, PSHCC.

DESIGN FOR A LIMITED PLANET: LIVING WITH NATURAL ENERGY, Skurka, Norma, and Naar, Jan, Ballantine Books, NY, 1976.

DIRECT GAIN PASSIVE DESIGN, DELAP RESIDENCE, Lambeth, James; 2nd NPSC, p. 43.

AN ECOLOGIC SOLAR HEATED AND COOLED HOME, Coonley, Douglas, and Anderson, Bruce; Total Environment Action, Church Hill, Harrisville, NH 03450.

ENERGY-CONSERVING FOLK ARCHITECTURE IN RURAL NEW MEXICO, Van Dresser, P., Arizona State Univ, Tempe Col of Architecture; from Proceedings of the ASC/AIA Forum 1975 Solar Architecture, Franta, G., Ed., 1975.

ENVIRONMENTALLY DESIGNED HOUSING INCORPORATING SOLAR ENERGY, Lawland, T.A., Brace Research Institute, Que, Heliotech and Dev, Proc of the Int Conf, Dhahran, Saudi Arabia, Nov 2-6, 1975, Publ by Dev Anal Assoc, Cambridge, MA, 1975, Vol 2, pp 210-235.

GROUNDHOUSE: THE LOW COST SOLAR HOME, Wistinghausen, Nik, 853 Champlain Rd, Sarnia, Ontario, Aug 1977.

HARRISON RESIDENCE, PLACITAS, NEW MEXICO, Harrison, David C., 2nd NPSC, p. 35.

THE HAWAIIAN ENERGY HOUSE, Pearson, James E., Dept of Architecture; Univ. of Hawaii, 1975.

HEATING BY SOLAR RADIATION, Mills, S., Australian Bldg, Science & Technology, Vol 7:21-2, N 3, Mar 1967. (TAC: ST74 55006)

HERE IS A HOUSE THAT CUTS HEATING AND COOLING BILLS BY 63%,  
House & Home, Vol 48, N10. Oct 1975. (TAC: ST75 50026)

HOME WITH SOUTHERN EXPOSURE, Barrett, Robert, EXTR: ARIZONA:  
12-29-74, 4DA0039 1974 pp 8-13 TP ASUSI.

HOUSE AT CROOKED CREEK, Schiff, Marc; 2nd NPSC, p. 38.

THE HOUSES OF NEW MEXICO: SOLAR ENERGY HEATS TWO HOUSES, Windes,  
Vina, New Mexico Magazine, Vol 53, No 2, Feb 1975.

A HYBRID PASSIVE/ACTIVE SOLAR HOUSE, Hunn B.D., California Univ,  
Los Alamos, NM. In Internatl Solar Energy Society, Annual  
Mtg, Orlando, FL, June 6-10, 1977 Proceedings. Sec 1-13;  
A78-11212 01-44, Cape Canaveral, FL, Interntl Solar Energy  
Society, 1977, pp 11-16 to 11-20. (NASA78A11269)

ILLINOIS HOUSE, Harris, W.S., Jones, R.A., Konzo, S., Shich, W.L.,  
Univ of Illinois, ASISES, Cape Canaveral, FL, 1976, from  
Sharing the Sun: Solar Technology in the Seventies, Vol 4,  
Boer, K.W., Ed.

THE KAREN TERRY HOUSE, Terry, Karen, p 132, PSHCC.

THE KELBAUGH HOUSE, Kelbaugh, D., Solar Age, Vol 1, No 7, July,  
1976.

LOW TECHNOLOGY SOLAR HOMES THAT WORK WITH NATURE, Price, Travis;  
Popular Science, Vol. 209, p. 95, Dec 1976.

LIVING IN A SOLAR HOUSE, Davis, Paul, p 149, PSHCC.

MIT SOLAR HOUSE 2: SOUTH WALL COLLECTION, STORAGE, AND HEATING,  
Dietz, A.G.H., Czapek, E.L., MIT, 1976, from Passive Solar  
Heating and Cooling, Keller, M.H., Ed.

AN OFFICE BUILDING FOR AN ERA OF TRANSITIONS: APPLICATION OF THE  
SKYTHERM SYSTEM OF PASSIVE HEATING AND COOLING TO A MODERATE  
DENSITY OFFICE BUILDING, Cooper, P., Haggard, K., Pohl, J.,  
2nd NPSC, p. 223.

OWNER-BUILT HOMES--LOW COST, ENERGY-EFFICIENT, Tozier, Eliot;  
Popular Science Solar Energy Handbook, Times Mirror Magazines,  
112 pp., 1978, \$1.75.

PASSIVE HEATED RESIDENCES, Lasar, S., 2nd NPSC, p. 205.

PASSIVE SOLAR BUILDINGS: A COMPILATION OF DATA AND RESULTS,  
Sandia Laboratories, Albuquerque, NM., Aug, 1977, SAND  
77-1204.

- PASSIVE SOLAR HEATED WAREHOUSE, Johnson, William C., Keller, Bruce M., Sedrick, Arthur V.; 2nd NPSC, p. 52.
- A PASSIVE SOLAR HOUSE BASED ON BALANCED DIRECT GAIN HEATING AND NIGHT VENTILATION COOLING, Cooper, P., Haggard, K., Niles, P., 2nd NPSC, p. 133.
- PASSIVE SOLAR RETROFIT, Gerhard, G., 2nd NPSC, p. 228.
- PERFORMANCE OF SOLAR STAIRCASE (TM) SOLAR HEATING SYSTEMS, Saunders, N.B., ERDA, 4th Report, P.O. Wa - 76-4974, July '76, 20 Mass. Ave. Wash. 20545.
- PITKIN COUNTY AIRPORT TERMINAL, Shore, Ron, p 129, PSHCC.
- A PLACE IN THE SUN: NEW MEXICO RESIDENTS HAVE BEEN EXPERIMENTING WITH SOLAR HOMES FOR YEARS, Windes, Vina, New Mexico Magazine, Vol 54, No 3, March, 1976.
- PRINCIPLES AND EXAMPLES OF THE DESIGN OF PASSIVE SOLAR HOUSES IN THE COOL TEMPERATE ZONE, Simon, Charles, Pres at the Solar Energy Up-date 1977 Solar Energy Society of Canada, 3rd Annual Gen Mtg and Conf, Aug 22-24, 1977.
- ROCK BED STORAGE UNDER RADIANT SLAB, Calthorpe, P., 2nd NPSC, p. 617.
- ROUNDUP: RECENT SOLAR HEATING INSTALLATIONS, Progressive Architecture, V. XL, March, 1959, p. 204.
- THE SASKATCHEWAN ENERGY CONSERVATION HOUSE, Catania, Peter J., Faculty of Engineering, Univ of Regina: Grolle, Ir.E.Hendrik, Grolle Architect and Engineer Ltd, Regina, Saskatchewan, Aug, 1977.
- SKYTHERM HEATING AND COOLING PROCESS, Hay, H., Arizona State University, Col of Archi, 1975, Proceedings of the ASC/AIA Forum, 1975, Solar Architecture, Franta, G., Ed., 9:502:544.
- SKYTHERM NATURAL AIR CONDITIONING FOR A TEXAS FACTORY, Hay, H., 2nd NPSC, p. 214.
- SOLAR BATTERY FOR PASSIVE HEATING, E. Moran, Popular Science, V. 210, p. 94, June, 1977.
- SOLAR BUILDING IN THE PYRENEES, Hogan, I., Archit Des, Jan, 1975, p. 113.

SOLAR DISCUSSES PASSIVE TRIPLE-PURPOSE SYSTEM, Solar ED, Sept, 1977.

SOLAR ENERGY HAPPENINGS IN OTHER COUNTRIES, deWinter, Francis, p 83, PSHCC.

SOLAR GLASS HOUSE WITH SUBSOIL HEAT ACCUMULATOR, Khairiddinov, B., Umarov, G.Ya., Bardiashvili, A.B., Sadykov, T.A., Acad of Sci of the Uzb SSR, Geliotekhnika, N6, pp 78-81, 1978.  
(TAC: ST77 30139)

THE SOLAR HEATED AND COOLED TYRRELL RESIDENCE, Anderson, Bruce, pp 150, PSHCC.

SOLAR HEATED BUILDINGS: A BRIEF SURVEY, Shurcliff, Wm.A., Cambridge, MA, 12th Edition, Mar 3, 1976, 173 pp.

SOLAR-HEATED HOUSE IN MARTINEZTOWN, Martinez, Danny, pp 147, PSHCC.

SOLAR HEATED HOUSES FOR NEW ENGLAND, Massdesign, Cambridge, MA, 67 pp, \$10.00.

A SOLAR HEATING SYSTEM FOR A NORTHERN NEW MEXICO ADOBE HOUSE, Edenburn, M.W. and Wessling, F.C., Jr., The American Society of Mechanical Engineers, 1975; Houston, 1975, ASME 1975-WA/S01 11.

SOLAR HOUSE, Baer, Steve, Alternative Sources of Energy, No. 10, March, 1973, pp 8.

THE SOLAR HOUSE, Hutchinson, F.W., Progressive Architecture, May 1947.

SOLAR HOUSE AT THE VILLAGE DU FRANCE, Chaud-Froid-Plomberie, Vol 28, No 338, June, 1974, pp 155-156, in French.

SOLAR ONE-ACTIVE AND PASSIVE CONTRIBUTIONS TO SPACE HEATING, Brockenbrough, T., Faunce, S., Sliwowski, J., 2nd NPSC, p. 621.

SOLAR RETROFIT TEST MODULES, Wessling, F.C., 2nd NPSC, p. 445.

SOLAR SUSTENANCE PROJECT PHASE II FINAL REPORT, Solar Sustenance Project, Inc, Yanda, Wm.F., The Energy Resource Board, State of NM, Santa Fe, NM.

SOLAR TECHNOLOGY OF ST. GEORGE'S SCHOOL, WALLASEY, Davies, M.G., Univ of Liverpool, Northeast London Polytechnic, Feb 1976, Solar Energy for Buildings, 4:749:300.

THE SOLDYNE HOUSE, Melzer, B., Starr, G., 2nd NPSC, p. 462.

SOME FOREIGN CULTURE PASSIVE SOLAR ENERGY FORMS, Kremers, J.A.,  
2nd NPSC, p. 753.

SOME PERFORMANCE CHARACTERISTICS OF THE CNRS SOLAR HOUSES, Trombe,  
F.; CNRS, Odeillo, France, Robert, J.F., Cabanta, M.,  
Sesolis, B., Interntl Solar Energy Soc, Rockville, MD, 1975,  
1975 Interntl Solar Energy Congress and Exposition.

A SOUTH-WALL HEATING SYSTEM FOR A COMMERCIAL BUILDING EMPLOYING  
TILT-UP CONCRETE CONSTRUCTION, Bagshaw, D.P., Whitehouse,  
H.T., 2nd NPSC, p. 94.

A SURVEY OF MONITORED PASSIVE SOLAR DWELLINGS, AIA/RC (under  
contract to DOE), In Press.

A SURVEY OF PASSIVE SOLAR BUILDINGS, AIA/RC (under contract to HUD),  
HUD-PDR-287, February, 1978.

STAZIONE ASTROFISICA SVEDESE - A SWEDISH SOLAR-HEATED HOUSE AT  
CAPRI, Pleijel, G.V. and Lindstrom, B.I., UN: Rome, E 35-S49.

SUNDWELLINGS DEMONSTRATION CENTER, Ghost Ranch Conference Center,  
Albuquerque, NM 87510; A Survey of Passive Solar Dwellings,  
AIA Publications, Marketing, 1735 New York Ave, N.W.,  
Washington, DC, 20003, \$12.00.

THERMAL PERFORMANCE OF THE GHOST RANCH SUNDWELLINGS, Wilson, Q.C.,  
2nd NPSC, p. 457.

THERMAL RESULTS OF CERTAIN PASSIVE HEATED STRUCTURES, Saunders,  
N.B., paper presented at NESEA Better Thermal Utilization  
Conference, Hartford, Ct., Sept. 8-11, 1977.

THE TSAWWASSEN "ENVIRONMENTALLY RESPONSIVE" EXPERIMENTAL HOUSE,  
Jenkins, Dan, Architectural Design, Calgary, Alberta; Solar  
Energy Update 1977; Faculty of Ext Univ of Alberta,  
Edmonton, Alberta.

THE \$2.50/Ft<sup>2</sup> SOLAR COLLECTOR: A DESCRIPTION AND COST ANALYSIS,  
Betz, W.B., Kevin, S.R., 2nd NPSC, p. 588.

TWO SMALL SOLAR BUILDINGS, Van Dresser, Peter, p 109, 3rd Annual  
Life Technics Conference, avail. NMSEA, Santa Fe, N.M.

UNIT 1, FIRST VILLAGE, Nichols, Wanyne, p 137, PSHCC.

THE WALLASEY SCHOOL, Perry, Joseph, p 223, PSHCC.

WEATHER RESPONSIVE BUILDING SKINS: CONCEPTS AND CONFIGURATIONS,  
Wellesley-Miller, S., 2nd NPSC, pp 493-500.

WESTON RESIDENCE, Saunders, Norman, p 90, PSHCC.

WHOLE HOUSE AS COLLECTOR, Barkmann, H.B., 3A0028, 1974, 8P, ASUSI.

WINTERS HOUSE, Hammond, Jonathan, p 153, PSHCC.

IV. WEATHER, CLIMATE, INSOLATION

ANALYSIS OF WORLD WIDE DISTRIBUTION OF SOLAR RADIATION, Duffie, J.A., Smith, C. and Lof, G.O.G.; Bulletin 21; Engineering Experiment Station; University of Wisconsin, Madison; 1964.

AVAILABILITY OF DIRECT, TOTAL AND DIFFUSE SOLAR RADIATION TO FIXED AND TRACKING COLLECTORS IN THE USA, Boes, Eldon, et. al.; Sandia Labs; August, 1977.

AVERAGE SOLAR RADIATION IN THE UNITED STATES, Fritz, S. and MacDonald, T.H., Heating and Ventilating, Vol. 46, No. 7; July 1949.

CALCULATING THE DAILY VARIATIONS OF SOLAR ENERGY INCIDENT ON FLAT PLATES, Derby, R.W.; Oak Ridge National Lab., Tenn.; ORNL-TM-4564; 29 pp., refs; May 1974; Contract W-7405-eng-26. (TAC: ST75 20000)

CLIMATE AND SITE: INFLUENCE ON PASSIVE SOLAR BUILDING DESIGN, Holtz, Michael; p. 17. PSHCC.

CLIMATE OF CLEMSON, S.C., Kish, A.L.; National Weather Service; Clemson, SC; NOAA-7409410; 33 pp.; Aug. 1974. (TAC: ST75 21002)

THE CLIMATE NEAR THE GROUND, Geiger, Rudolf; Harvard Univ. Press; 79 Garden St., Cambridge, MA 02138, rev. ed., 1973; 611 pp. \$18.00.

CLIMATIC ATLAS OF THE UNITED STATES, Visher, S.S.; Harvard Univ. Press; 1954.

CLIMATIC DESIGN DATA AND THE EFFECT OF CLIMATE ON INDOOR ENVIRONMENT, Ballantyne, E.R., Airah, M.; CSIRO, Highett, Victoria, Australia; Australia Institute of Refrig., Air Cond. and Heat.; Fed Conf, Brisbane, Queensland, Australia; 14 pp.; April 29-May 3, 1974; Publ. by AIRAH, Queensl Div., Brisbane; 1974. (TAC ST76 50076)

COMPARISON OF THE SPECTRAL DISTRIBUTION OF SOLAR RADIATION IN A POLLUTED AND A CLEAR AIR MASS, Randerson, D.; J. Air Pollut. Contr. Assoc., V 20:546:49 N 8; Aug. 1970. (TAC: ST74 23021)

CORRELATION OF DAILY INSOLATION WITH DAILY TOTAL SKY COVER, OPAQUE SKY COVER AND PERCENTAGE OF POSSIBLE SUNSHINE, Bennett, I., Solar Energy; V 12:391-393, N 3; 1969. (TAC: ST74 22004)

- CORRELATION OF TOTAL, DIFFUSE, AND DIRECT SOLAR RADIATION, Buyco, E.H., Namkoong, D.; NASA, Lewis; NASA-TM-X-3422; 25 pp. March 1977; E-8867, N77-19714/3WE. (TAC. ST77 37025)
- DAILY INSOLATION ON SURFACES TILTED TOWARD THE EQUATOR, Liu, B.Y.H. and Jordan, R.C.; ASHRAE Journal, Vol 3, No. 19; 1961; p. 53.
- DESIGN WITH CLIMATE: BIOCLIMATIC APPROACH TO ARCHITECTURAL REGIONALISM, Olgyay, Victor; Princeton Univ. Press; 41 William St., Princeton, NJ 08540; 1973, (\$28.50); Influence of Climate on Building Principles, the establishment of an analytical Process.
- DEVELOPMENT AND USE OF SOLAR INSOLATION DATA FOR SOUTH FACING SURFACES IN NORTHERN LATITUDES, Morrison, C.A., Farber, Erich; ASHRAE Transactions, Vol 80, Pt 2, 1974.
- DIRECT, DIFFUSE AND TOTAL SOLAR RADIATION; Solar Energy Vol 4, No. 3, 1960; pp. 1-19 and Solar Energy Vol. 7; 1963; pp. 71-4.
- ESTIMATED HOURLY RADIATION ON A TILTED SURFACE FOR THUNDER BAY, ONTARIO, Jones, R.E., Jr.; Department of Physics, and Kemp, D.D. of Department of Geography; Lakehead Univ.; Thunder Bay, Ontario.
- ESTIMATING THE DIRECT COMPONENT OF SOLAR RADIATION; Sandia Labs; Albq., N.M., 1975.
- THE ESTIMATION OF MONTHLY MEAN VALUES OF DAILY TOTAL SHORT WAVE RADIATION ON VERTICAL AND INCLINED SURFACES FROM SUNSHINE RECORDS FOR LATITUDES 40 N-40 S', Page, J.K., UN: Rome, Vol 4, p 387.
- EXPERIMENT ON HEAT GAINS OF ROOFS BY SOLAR RADIATION, Hirayama, Takashi; 4DE0005 3P TP ASUST.
- FORECASTING DAYTIME TEMPERATURE UTILIZING AVAILABLE SOLAR ENERGY, Marmon, H.A.; Weather Bureau Research Station, Fort Huachuca, Ariz.; Environ, Sci. Services Admin., Its Western Region Note, N 4; TN-28-WR-4; PB-169385; 24 pp. December 1965, refs. (TAC: ST74 22017)
- A GENERAL EQUATION FOR CALCULATING TOTAL RADIATION ON INCLINED SURFACES, Heywood, H.; International Solar Energy Society, Conference, Melbourne, Australia; March 2-6, 1970; Paper; 8 pp., 5 refs.; publ. by the Australian and New Zealand Section of the Society; 191 Royal Parade; Parkville, Victoria 3052. (TAC: ST74 20022)

HOURLY SOLAR RADIATION DATA FOR VERTICAL AND HORIZONTAL SURFACES ON AVERAGE DAYS IN THE UNITED STATES AND CANADA, Kusuda, T., Ishii, K.; NBS, Washington, DC; 412 pp; April 1977; Available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, VA 22161.

INSOLATION ON CLEAR DAYS AT THE TIME OF SOLSTICE AND EQUINOXES FOR LATITUDE 42 N', Heating and Ventilating, Vol. 47, 1950, p 92.

INSOLATION ON SOUTH-FACING TILTED SURFACES: PACIFIC NORTHWEST LOCATIONS, The Center for Environmental Research, School of Architecture and Allied Arts, Univ. of Oregon, Eugene, OR 97403; 60 pp., 1975; \$2.50.

MEASUREMENT OF APPARENT SOLAR CONSTANT AND APPARENT EXTINCTION COEFFICIENT AT EDMONTON (ALBERTA) CANADA, Sadler, G.W., Solar Energy, V 13:35-41, N 1; 1970. (TAC: ST74 24034)

MEASUREMENT OF DIRECT, DIFFUSE AND TOTAL RADIATION WITH SILICON PHOTO-VOLTAIC CELLS, Selcuk, M.K. and Yellott, J.I.; Solar Energy, Vol. 6, 1962; pp. 155-63.

MEASUREMENT OF SOLAR RADIATION IN PHOENIX, Caryl, C.R. and Leeper, G.A.; Solar Energy, V 3:59, N 1, January, 1959. (TAC: ST74 24002)

A METHOD FOR ESTIMATING HOURLY AVERAGES OF DIFFUSE AND DIRECT SOLAR RADIATION UNDER A LAYER OF SCATTERED CLOUDS-FOR SOLAR COLLECTOR DESIGN, Wesely, M.L., Lipschutz, R.C.; Argonne National Laboratory, Argonne, IL; Solar Energy, V 18: 467-473, N5; 1976; ERDA-Supported A77-12412. (TAC: ST77 37011)

MONTHLY MAPS OF MEAN DAILY INSULATION FOR THE UNITED STATES, Bennett, I.; Solar Energy, Vol. 9 No. 3, July-Sept. 1965; pp 145-158.

NATURAL SOLAR/MICROCLIMATE/SOLID-STATE DESIGN, Wright, David; 2nd NPSC, p. 13.

NEW WORLD MAPS OF GLOBAL SOLAR RADIATION DURING IGY (INTERNATIONAL GEOPHYSICAL YEAR 1957-1958), Ashbel, D., The Hebrew University Dept. of Climatology and Meteorology; Jerusalem, 1961.

ON THE PROBLEM OF THE INFLUENCE OF LOCAL FACTORS ON THE RECEIPT OF RADIATION IN A MOUNTAINOUS DISTRICT, Borzenkova, I.I.; National Lending Library for Science and Technology; Boston Spa, England; Translated into English from Glav. Geof. Obs., Leningrad; No. 209; 1967, pp. 70-77; NLL-M-7487-(5828.4F); 1968; 15 pp., refs. (TAC: ST74 20008)

ON THE RELATION BETWEEN INSOLATION AND CLIMATOLOGICAL VARIABLES. I-ANALYSIS OF INSOLATION PATTERNS AT FORT WORTH, TEXAS, Rapp, D., Hoffman, A.A.J.; NSF AER-74-17139A01; Energy Conversion, V16:1-11, N1-2; 1976; A76-47434. (TAC: ST77 37008)

ON THE SOLAR RADIATION FIELD IN A POLLUTED ATMOSPHERE, Coulson, K.L.; Univ. California, Davis, USA; J. Quant Spectrosc. & Radiat. Transfer (GB); V 11:739-55, N6; June 1971; 35 refs. (TAC: ST74 23008)

REGIONAL GUIDELINES FOR BUILDING PASSIVE SOLAR ENERGY CONSERVING HOMES, Loftness, Vivian, AIA/RC, In Press.

REGIONAL VARIATIONS OF SOLAR RADIATION WITH APPLICATION TO SOLAR ENERGY SYSTEM DESIGN, FINAL REPORT, Atwater, M.A., Bal, J.T.; Center for the Environment and Man, Inc., Hartford, CT; NSF/RA-760196; 127 pp.; July 1976; CEM-4185-550a, PB-259 379-6WE. (TAC: ST77 3700)

RELATIONSHIPS BETWEEN INSOLATION AND OTHER SURFACE WEATHER OBSERVATIONS AT BLUE HILL, MASSACHUSETTS, Lund, I.A.; Air Force Cambridge Research Labs; L.G. Hanscom Field, Mass., Report No. AFCRL-69-0233; 14 pp.; Feb. 20, 1968; Solar Energy, V 12:95-106, N 1; 1968. (TAC: ST74 22013)

SELECTIVE RADIATION IN WAVELENGTH DISCRIMINATION, Tabor, H.; Scientific Basis; 2A, pp. 24; also in Bull. Res. Council Israel; Vol. 5A, Nos. 2 and 3; April 1956.

THE SIGNIFICANCE OF THE COMPONENTS OF HEAT AND WATER BALANCES IN THE FORMATION OF MICRO AND LOCAL CLIMATE, Konstantinov, A.R., Sakaly, L.I., Daigot, L.S.; Ukrainian Scientific Hydrometeorological Inst. USSR; N75-23013; In WMO Phys. and Dyn. Climatol. pp. 99-105; 1974. (TAC: ST75 20021)

SIMPLE INSTRUMENTS FOR THE ASSESSMENT OF DAILY SOLAR RADIATION INTENSITY, Heywood, H.; UN: Rome; E 35-S9.

SIZING OF SOLAR ENERGY STORAGE SYSTEMS USING LOCAL WEATHER RECORDS, Moore, G.L.; ASME; New York; 1974; \$3.00.

- SOLAR ENERGY: A SUMMARY OF RECORDS AT COLUMBIA, MISSOURI, McQuigg, J.D., and Decker, W.L.; Missouri University Agr. Exp. Sta. Res. Bull 671; July 1958; 27 pp., Illus. (TAC: ST74 24028)
- SOLAR ENERGY AVAILABILITY FOR HEATING IN THE UNITED STATES, Jordan, R.C. and Threlkeld, J.L.; Heating, Piping and Air Conditioning, Vol. 25, Dec. 1953; pp. 111.
- SOLAR ENERGY AVAILABILITY AND INSTRUMENTS OFR MEASUREMENTS: RADIA-TION DATA, NETWORKS AND INSTRUMENTATION; United Nations Department of Economic and Social Affairs; UN: Rome.
- SOLAR RADIATION, Robinson, N.; Elsevier Publishing Co., Amsterdam, N.Y., 1966.
- SOLAR RADIATION AND THE ATMOSPHERE, John Yellott; p. 7-16 PSHCC.
- SOLAR RADIATION AT THE EARTH'S SURFACE, Landsberg, H.E.; Solar Energy, Vol. 5, No. 3; 1961; p. 95.
- SOLAR RADIATION AVAILABILITY ON SURFACES IN UNITED STATES AS AFFECTED BY SEASON, ORIENTATION, LATITUDE, ALTITUDE AND CLOUDINESS, Becker, C.F., Boyd, J.H., Solar Energy, V 1:13-21, N 1; January 1957. (TAC: ST74 20003)
- SOLAR RADIATION DURING CLOUDLESS DAYS, Fritz, S.; Heating and Ventilating, Vol. 46, No. 1; 1949.
- SOLAR RADIATION ON CLOUDY DAYS, Kimura, K., Stephenson, D.G.; ASHRAE-Trans., V 75:227-34; Paper 2106, Pt 1; 1969. (TAC: ST74 22012)
- SOLAR RADIATION ON INCLINED SURFACES, Norris, D.J.; Solar Energy, V 10: 72-76, N 2. (TAC: ST74 20040)
- SOLAR RADIATION ON WALLS FACING EAST AND WEST, Cunniff, C.V.; Air Conditioning, Heating & Vent., V 55:82-88, N 10; Oct. 1958. (TAC: ST74 24004)
- SOLAR RADIATION ON WALLS FACING NORTH AND SOUTH, Cunniff, C.V.; Air Conditioning, Heating & Vent., V56:64-67, N 8; August 1959. (TAC: ST74 24005)

SOLAR RADIATION MEASUREMENT-TECHNIQUES AND INSTRUMENTATION,  
Thekaekara, M.P.; NASA, Goddard; Solar Energy, V 18:309-325,  
N4, 27 refs; 1976; International Solar Energy Society, Inter-  
national Solar Energy Congress and Exposition; University of  
California, Los Angeles, CA, July 28-Aug. 1, 1975; A76-43181.  
(TAC: ST76 24031)

THE SOLAR RESOURCE: MOTION AND AMPLITUDE, Place, W., 2nd NPSC,  
pp 769-772.

SOME ASPECTS OF THE CLIMATOLOGY OF SOLAR RADIATION, Black, J.N.;  
UN: Rome; E 35-S13.

SOURCES OF INSOLATION DATA, Randall, C.M.; Aerosp Corp., El Segundo,  
CA; SPIE Semin Proc., V 68:23-28, 10 refs; 1975; Opt in Sol  
Energy Util, for Meet, San Diego, CA; Aug. 21-22, 1975.  
(TAC: ST76 2430)

TERRESTRIAL, ATMOSPHERIC AND SOLAR RADIATION FLUXES ON A HIGH  
DESERT MOUNTAIN IN MID-JULY: WHITE MOUNTAIN PEAK, CALIFORNIA,  
Terjung, W.H., Kickert, R.N., Potter, G.L. and Swarts, S.W.;  
Solar Energy, V 12:363-375, N3; 1969. (TAC: ST74 24039)

WORLD DISTRIBUTION OF SOLAR RADIATION, Lof, G.O.G., Duffie, J.A.  
and Smith, D.O.; Report No. 21, Solar Energy Laboratory,  
College of Engineering, University of Wisconsin, Madison;  
July 1966.

V. HUMAN COMFORT

- CALCULATING HUMAN COMFORT, Kranz, P., ASHRAE Journal, Vol. 6, No. 9. 1964, pp. 68-77.
- CLIMATE AND THE INDIVIDUAL, Herrington, L.P., ASRE Journal, Vol. 58, No. 1, 1950.
- CONCEPTS IN THERMAL COMFORT, Eagan, M.D., Printice-Hall, Englewood Cliffs, NJ, 1975.
- EFFECT OF CHANGES IN AMBIENT TEMPERATURE AND LEVEL OF HUMIDITY ON COMFORT AND THERMAL SENSATIONS, Nevins, Ralph G., Gonzalez, R.R., Nishi, Yasunobu, Gagge, A.B., ASHRAE Transactions, Vol. 81, Pt. 2, 1975.
- EFFECT OF COOL ENVIRONMENTS ON LOCAL THERMAL SENSATION, DISCOMFORT AND CLOTHING SELECTION, Gonzales, R.R., Nishi, U., Yale Univ. School of Medicine, New Haven, CT., ASHRAE Transaction, Vol. 82: 76-86, Pt. 1, 17 refs., 1976. Proc of the ASHRAE Semiannual Meeting, Dallas, TX, Feb 1-5, 1976. (TAC: ST77 35004)
- EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART I - COLLEGE AGE MALES, Nevins, Ralph G., Michaels, K.B., Feyerherm, A.M., ASHRAE Transactions, Vol., 70, 1964.
- EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART II - COLLEGE AGE FEMALES, Nevins, Ralph G., Michaels, K.B., Feyerherm, A.M., ASHRAE Transactions, Vol. 70, 1964.
- EFFECTS OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART III - THE ELDERLY, Springer, W.E., Nevins, Ralph G., Feyerherm, A.M., Michaels, K.B., ASHRAE Transactions, Vol. 72, Pt. 1, 1966.
- EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART IV -COLD FLOORS, Nevins, Ralph G., Feyerherm, A.M., ASHRAE Transactions, Vol 73, Pt. 2, 1967.
- THE EFFECTS OF FLUCTUATING TEMPERATURE AND RELATIVE HUMIDITY ON THE THERMAL SENSATION OF SEDENTARY SUBJECTS, Sprague, Clyde H., McNall, Preston E., Jr., ASHRAE Transactions, Vol.76, Pt. 1, 1970.
- EFFECT OF HEATED FLOOR TEMPERATURES ON COMFORT, Flinner, A.E., and Nevins, R.G., ASHVE Transactions, Vol. 64, 1968, ASHVE Journal Vol. 29, No. 10, 1957.
- EFFECT OF RELATIVE HUMIDITY ON HEAT LOSS OF MEN EXPOSED TO ENVIRONMENTS OF 80, 76, AND 72 F, Telser, S.E., MD, Inouye, Tohru, and Hick, F.K., MD, ASHVE Transactions, Vol. 58, 1953, ASHVE Journal, Vol. 25, No. 8, 1953.

- ENERGY CONSERVATION, COMFORT, ACCEPTABILITY AND HEALTH, Nevins, R.G., Yale Univ., New Haven, CT., Inst. of Refrig. Air Cond. and Heat, Fed. Conf., Brisbane, Queensland, Australia, 14 pp., 18 refs., April 29-May 3, 1974, Publ. by AIRAH, Queensland Div., Brisbane, Australia, 1974. (TAC: ST76 50087).
- ENVIRONMENTAL STUDY II, SENSATION RESPONSES TO TEMPERATURE AND HUMIDITY UNDER STILL AIR IN COMFORT RANGE, Kock, W., Jennings, B.H., Humphreys, C.M., ASHRAE Transactions, Vol. 66, 1960, ASHRAE Journal, Vol. 2, No. 4, 1960.
- ENVIRONMENT, COMFORT, HEALTH AND PEOPLE, Werden, Jane E., Dr., and Fahnestock, M.K., ASRE Journal, Vol. 64, No. 2, 1956.
- A HISTORY OF ASHRAE COMFORT RESEARCH, Everetts, John, Jr., ASHRAE Journal, Vol. 17, No. 10, 1975.
- THE INFLUENCE OF CLOTHING AND TEMPERATURE ON SEDENTARY COMFORT, Rohles, F.H., Jr., Woods, James E., Nevins, Ralph G., ASHRAE Transactions, Vol. 79, Pt. 2, 1973.
- A LOW COST METHOD OF EVALUATION AND PERFORMANCE STANDARDS FOR PASSIVE SOLAR BUILDINGS, Stickney, B.L., 2nd NPSC, pp. 440.
- MINIMIZING SPACE ENERGY REQUIREMENTS SUBJECT TO THERMAL COMFORT CONDITIONS, Whitmer, L.R., Kansas State Univ., Manhattan, KS., CODEN-ASHRAA SOURCE ASHRAE J, V. 18:48-51, No. 6, 9 refs, June 1976. (TAC: St76 50111)
- MODAL COMFORT ENVELOPE, A NEW APPROACH TOWARD DEFINING THERMAL ENVIRONMENT IN WHICH SEDENTARY MAN IS COMFORTABLE, Rohles, F.H., Jr., ASHRAE Transactions, Vol. 76, Pt. 1, 1970.
- THE NEW ASHRAE COMFORT CHART, Nevins, Ralph G., Gagge, A.P. ASHRAE Journal, Vol. 14, No. 8, 1972.
- PHYSIOLOGICAL ASPECTS OF HEATING AND VENTILATING, DuBois, E.F., ASHVE Journal, Vol. 23, No. 4, 1951.
- A RATIONAL BASIS FOR HUMAN THERMAL COMFORT, Morse, R.N., Kowalczewski, J.J., ASHRAE Journal, Vol. 9, No., 9, 1967.
- RELATIVE EFFECTS OF CONVECTION, RADIATION HEAT-TRANSFER ON THERMAL COMFORT FOR SEDENTARY AND ACTIVE PERSONS, McNall, Preston, E Jr., Schlegel, J.C., ASHRAE Transactions, Vol. 74, Pt. 2, 1968.
- RESEARCH ON HEATING AND VENTILATION IN RELATION TO HUMAN COMFORT, Beford, Thomas, ASHVE Journal, Vol. 30, No. 12, 1958.
- RESEARCH ON HUMAN COMFORT AND ENVIRONMENT, Jennings, B.H., ASHVE Journal, Vol. 30, No. 10, 1958.

THE ROLE OF CLOTHING IN MEETING FEA ENERGY CONSERVATION GUIDELINES,  
Gagge, A.P., Nishi, Yasonobu, Nevins, Ralph G., ASHRAE  
Transactions, Vol. 82, Pt. 2, 1976.

ROOF MASS AND COMFORT, Hay, Harold R., 2nd NPSC, pp. 23.

A SUBJECTIVE EVALUATION OF SOLAR RADIATION AND RERADIATION FROM  
WINDOWS ON THE THERMAL-COMFORT OF WOMEN, Schutrum, L.F.,  
Stewart, J.L., ASHRAE Transactions, Vol. 74, Pt. 2, 1968.

A TEMPERATURE HUMIDITY CHART FOR THERMAL COMFORT OF SEATED PERSONS,  
Nevins, Ralph G., Rohles, F.H., Jr., Springer, W.E., Feyerherm, A.M.,  
ASHRAE Transactions, Vol. 72, Pt. 1, 1966; ASHRAE Journal, Vol. 8,  
No. 4, 1966.

THERMAL COMFORT: ANALYSIS AND APPLICATIONS IN ENVIRONMENTAL ENGINEERING,  
Fanger, P.O., McGraw-Hill, Highstown, NJ, 1972, 244 pp., \$18.50.

THERMAL COMFORT CONDITIONS, Nevins, Ralph G., Gorton, Robert L., Bridgers,  
Frank H., ASHRAE Journal, Vol. 16, No. 1, 1974.

THERMAL COMFORT MEASUREMENTS, Lund Madsen, ASHRAE Transactions, Vol. 82,  
Pt. 1, 1976.

THERMAL COMFORT (THERMALLY NEUTRAL) CONDITIONS FOR THREE LEVELS OF  
ACTIVITY, McNall, Preston E., Jr., Jaax, J., Rohles, F.H., Jr.,  
Nevins, Ralph G., ASHRAE Transactions, Vol. 73, Pt. 1, pp. 1.3.1-  
1.3.14, 1967.

VI. GREENHOUSES

ANALYTICAL DETERMINATION OF DIRECT VISIBLE SOLAR ENERGY TRANSMITTED BY RIGID PLASTIC GREENHOUSES, Manbeck, H.B., Aldrich, R.A., Trans. ASAE, Vol. 10 No. 4, 1967, pp. 564-567.

AN ATTACHED SOLAR GREENHOUSE, Yanda, W., The Lightning Tree, Box 1857, Santa Fe, NM 87501, \$2.00.

CALCULATION OF HEAT LOSSES FROM A SOLAR HOTHOUSE THROUGH A TRANS-PARENT BARRIER, Rzaev, P.F.; Lab. for the Utilization of Wind Power and Solar Energy as Azssr; Appl. Solar Energy; USSR-Eng. Translation; Vol. 1, No. 6; 1975; pp. 31-36.

CO2-GREENHOUSE OR ATMOSPHERIC EFFECT, Kanestrom, I., Oslo Universitetet, Oslo, Norway, Geophysical Norvegica, Geofysiske publikasjoner, Vol. 31, No. 3, 1976, pp. 1-5.

CONCEPT FOR USE OF SOLAR ENERGY IN GREENHOUSES, Liu, R.C., Carlson, G.E., Northwest Reg Agric Res Serv, U.S. Dept. of Agric., Beltsville, MD, Energies, Vol. 1:10-11, No. 5, Dec. 1975, (TAC: ST76 47010).

A CONFERENCE ON SOLAR ENERGY FOR HEATING GREENHOUSES AND GREENHOUSE-RESIDENTIAL COMBINATIONS, Short, Ted H., The Ohio Agricultural Research and Development Center & The Energy Research and Development Administration, March 20-23, 1977.

CONSIDERATIONS FOR RETROFITTING AN ATTACHED SOLAR GREENHOUSE, Yanda, William, pp 160. PSHCC.

CONTROL OF CONDENSATE AND LIGHT IN GREENHOUSES AND SOLAR STILLS, DeLano, R., Solar Sunstill, Inc., Setauket, NY, Raseman, C.J., Plast in Agri and Horti Conf, Proc, Wye Coll, Kent, England, 10 pp., 7 refs, March 1974, Publ by Plast Inst., London, England, 1974. (TAC: ST74 47001).

"DESERT COULD" APPLIED TO BIO-CLIMATIC PLANT HOUSING, Stevens, G.A., 2nd NPSC, Vol. 2, pp. 519.

DEVELOPMENT AND TESTING OF AN ENVIRONMENTALLY DESIGNED GREENHOUSE FOR COLDER REGIONS, Lawland, T.A., Alward, R., Saulnier, B., Brunet, E., MacDonald Coll of McGill Univ., Ste. Anne de Bellevue, Quebec, Sol Energy Vol. 17:307-312, No. 5, 8 refs, Nov. 1975. (TAC: ST76 47003)

THE DOUBLE BOX, Garrison, Michael, 2nd NPSC, pp. 180.

THE ECONOMICS OF THE ATTACHED SOLAR GREENHOUSE FOR HOME HEATING -  
A PRELIMINARY ASSESSMENT, Kolstad, C.D., 2nd NPSC, p. 822.

EFFECT OF PLANT MATERIAL UPON MICROCLIMATE OF HOUSE AND GARDEN,  
Deering, Brooks, REPR:AHM:7-54; 4D10007; 1954; pp. 162-  
167; TP ASUSI.

ENERGY IN GREENHOUSE CULTURE IN FINLAND, Puustjarvi, V; Peat  
Research Insti., Riihikallio, Finland; January 1976; Low-  
Grade Heat: A Resource in Cold Climates; Vol. 1, Gay, B.,  
LaCroix, M.J.B., Ophel, I.L., Eds.

THE FOOD AND HEAT PRODUCING SOLAR GREENHOUSE, John Muir Publication,  
P.O. Box 613, Santa Fe, NM; 1976.

GREENHOUSE AND AQUACULTURE, DeKorne, Jim; p. 55; PSHCC.

THE GREENHOUSE AS AN EFFICIENT FLAT PLATE COLLECTOR, Watson, T.;  
Foundation for Rural Technology, P.O. Box 8, Embudo, NM.  
(TAC: ST75 47012).

GREENHOUSE AS A SOLAR COLLECTOR, Smith, J., Aldrich, R.A., White,  
J.W., Duda, J.L.; Pennsylvania State Univ., University Park;  
Pap ASAE; 10 pp. N76-4052, 1 ref; for Annual Meet., Univ. of  
Nebraska, Lincoln; June 27-30, 1976. (TAC: ST77 27004).  
Available from ASAE.

GREENHOUSES ORIENTED TO THE SUN, Vatansever, A., Heliotech and Dev.,  
Proc. of the Int. Conf., Dhahran, Saudi Arabia; V2:396-400;  
1976. (TAC: ST77 27012).

Hybrid Solar Greenhouse at Cate Farm, Atlas, A., Pascale, R., Troia,  
E., 2nd NPSC, p. 185.

INVESTIGATION OF THE CONTRIBUTION OF SOLAR ENERGY IN HEATING GREEN-  
HOUSES IN QUEBEC, Lawand, T.A., Malik, M.A.S., Hopley, Alward  
R.; P1; MacDonalld Coll. of McGill Univ., Que.; J. Eng. Power;  
Vol. 95, No. 2; April 1973; pp. 114-8.

INVESTIGATION OF HOTHOUSES AS SOLAR ENERGY COLLECTORS, Umarov, G.  
Y.A., Baybutayev, Yakubov, Ju. H.; Geliotechnology (Heliotechnol-  
ogy), Vol. 7:26, No. 6; 1971. (TAC: ST74 47020).

LUMINESCENT GREENHOUSE COLLECTOR FOR SOLAR RADIATION, Weber, W.H.,  
Lambe, J.; Ford Motor Co., Dearborn, MI; Applied Optics,  
V 15:2299,2300; Oct. 1976; A76-46178. (TAC: ST77 27005).

- NEAR 100% SOLAR HEATED GREENHOUSE EMPLOYING DUAL FUNCTION TRICKLE WALL; Scheme S-144; Shurcliff, William A.; Cambridge, MA; 1977; 5 pp.
- NOTI SOLAR GREENHOUSE: PERFORMANCE & ANALYSIS, Hoff, Eric, Jenkins, David, Van Duyn, Jim; Univ. of Oregon; Dept. of Architecture; Eugene, OR; 1977.
- NOTI SOLAR GREENHOUSE: PERFORMANCE AND EVALUATION, Baker, S., Mazria, E., 2nd NPSC, p. 190.
- A PASSIVE SOLAR HEATED HOUSE AND GREENHOUSE ON CAPE COD, DESCRIPTION AND PERFORMANCE, Williams, P.F., 2nd NPSC, p. 203.
- PREDICTING TEMPERATURES IN VENTILATED GREENHOUSES, Walker, J.N.; Trans. ASAE; Vol. 8, No. 3; 1965; pp. 445-448.
- REDUCING HEAT LOSSES IN POLYETHYLENE COVERED GREENHOUSES, Simkins, J.C., Mears, D.R., Roberts, W.J.; Rutgers State Univ., New Brunswick, NJ; ASAE Pap, 68th Annual Meet, Univ. of Calif., Davis; Pap 75-4022; 15 pp., 14 refs; June 22-25, 1975; Publ by ASAE, St. Joseph, MI; 1975. (TAC: ST76 47007).
- REDUCING NIGHT HEAT LOSSES AND DAYTIME SOLAR EXTREMES IN GREENHOUSES, Perry, R.L.; Univ. of California, Riverside; ASAE Pap, 68th Annual Meet, Univ. of California Davis; Pap 75-4021; 26 pp; June 22-25, 1975, Publ by ASAE, St. Joseph, MI; 1975. (TAC: ST76 47005).
- REVIEW OF MONTE VISTA ELEMENTARY SCHOOL GREENHOUSE, Harrison, David, pp 108. PSHCC.
- THE SELF-HEATING BUILDING, Chahroudi, D., 2nd NPSC, pp 197.
- SIMULATION OF SOLAR ENERGY AVAILABILITY, UTILIZATION, AND STORAGE IN GREENHOUSES, Duncan, G.A., Loewer, O.J., Jr., Colliver, D.G., Univ of Kentucky, Lexington, Pap ASAE, 43 pp., N76-4010, 32 refs, for Annual Meeting, Univ. of Nebr, Lincoln, June 27-30, 1976. (TAC: ST77 27001). Available from ASAE.
- SOLAR EFFICIENT GREENHOUSE: MEANS GROWING MORE FOR LESS, Yanda, B.; Solar Systemance Project, Inc., Santa Fe, NM; Sol Eng.; Vol. 1, No. 8; Oct. 1976; pp. 12-14.

- SOLAR ENERGY GREENHOUSES: OPERATING EXPERIENCES, Lawland, T.A., et. al.; Brace Research Institute, MacDonal'd College of McGill University; Ste. Anne de Bellevue, Quebec.
- SOLAR GREENHOUSE, Fisher, R., Yanda, B., John Muir Publications Box 613, Santa Fe, NM 87501; 1976; \$5.50.
- THE SOLAR GREENHOUSE, Yanda, B., 3rd Annual Life-Technics Conference, avail., NMSEA, Sante Fe, N.M.
- SOLAR GREENHOUSE DESIGN FOR THE COLD DRY REGIONS OF THE SOUTHWESTERN USA, Wade, H.A.; 1976; from Passive Solar Heating and Cooling; Keller, M.H., Ed.
- SOLAR HEATED GREENHOUSE PROJECTS, Larke, G.R.; Citizens for Energy Conservation & Solar Development, Inc., Los Angeles, CA; Sept. 30, 1976. (TAC: ST77 27003).
- SOLAR HEATED GREENHOUSE WITH A ONE YEAR PAYOUT, Kusianovich, J.; Zomeworks Corp., Albuquerque, NM; Sol Use Now-A Resource for People; Publ by ISES, Smithsonian Radiation Biology Laboratory, Rockville, MD; pp. 67-68; 1975, Int Sol Energy Congr and Expo, Extended Abstr; Univ. of California, Los Angeles; July 28-Aug. 1, 1975. (TAC: ST77 27002).
- SOLAR, LONG WAVELENGTH, AND PHOTOSYNTHETIC ENERGY TRANSMISSION OF GREENHOUSE COVER MATERIALS, Bond, T.E., Godbey, L.C., and Zornig, H.F.; Agricultural Research Service, U.S. Dept. of Agriculture, Rural Housing Research Unit, Clemson, SC.
- SOLUTION OF THE SYSTEM OF HEAT BALANCE EQUATIONS FOR HOTOUSES IN THE UNSTEADY REGIME, Pozin, G.M.; Gipronisel'prom; Appl. Solar Energy; USSR-Engl. Transl.; Vol. 7, No. 2; 1971; pp. 55-61.
- STRUCTURAL ANALYSIS OF AN EXPERIMENTAL CABLE-SUPPORTED AIR-INFLATED GREENHOUSE, Mears, D.R., Kim, M-K., Roberts, W.J.; Rutgers Univ., State Univ. of New Jersey, New Brunswick; ASAE Pap, 68th Annu Meet, Univ. of California, Davis, Pap 75-4034; 21 pp.; 7 refs; June 22-25, 1975; Publ by ASAE; St. Joseph, MI. (TAC: ST76 47004).
- TEMPERATURE GRADIENTS IN GREENHOUSE, Takakura, T.; J. Appl. Meteorol., Vol. 6, No. 5; Oct. 1967; pp. 956-957.

TEMPERATURE STABILIZATION IN GREENHOUSES, Nash, R.T., Williamson, J.W.; Vanderbilt Univ.; from 1975 International Solar Energy Congress and Exposition, ISES; Rockville, MD. 1975.

THEORETICAL ANALYSIS OF A SYSTEM COMBINING A SOLAR STILL WITH A CONTROLLED-ENVIRONMENT GREENHOUSE, Oztoker, U., Selcuk, M.K., A.S.M.E.; New York; 1971.

USING NATURAL ENERGY IN ARCHITECTURAL DESIGN, Butler, L.P., 2nd NPSC, p. 169.

VII. AGRICULTURAL

(Passive Design as Related to Agriculture)

ANIMAL HEAT OFFERS SOURCE FOR HEAT PUMP OPERATION, Blomqvist, Martin; ASRAE Journal, Vol 58, No 9; 1950.

APPLICATIONS OF SOLAR ENERGY TO AGRICULTURE, HORTICULTURE, ANIMAL HUSBANDRY, AND FOREST PRODUCTS: Solar Energy Society, Survey of Research; Solar Energy, Vol 9, No 2; 1965. (TAC: ST74 10089)

APPLICATION OF SOLAR ENERGY FOR PEANUT DRYING AND CURING, Butler, J.L., Troeger, J.M.; USDA, Agric Res Serv, Tifton, GA; Pap ASAE, Pap 75-3503; 13 pp.; 9 refs; for Annual Meet., Chicago, IL; Dec. 15-18, 1975. (TAC: ST77 28003)

DEVELOPMENT OF GREENHOUSE BULK DRYING SYSTEMS FOR SOLAR ENERGY UTILIZATION AND PLANTBED MECHANIZATION, Huang, B.K., Abrams, C.F., Jr., Coats, L.L., Bowers, C.G., Jr.; N.C. State Univ.-Raleigh; ASAE Pap, 68th Annual Meeting, Univ. of Calif., Davis; Pap 75-1018; 20 pp.; 16 refs; June 22-25, 1975; Publ by ASAE, St. Joseph. (TAC: ST76 47002)

DEVELOPMENT, THEORETICAL ANALYSIS AND PERFORMANCE EVALUATION OF SHELF TYPE SOLAR DRIERS, Selcuk, M.K. - Honeywell Inc Syst and Res Cent, Minneapolis, NM; Ersay, O, Aykurt, M.; Sol Energy Vol 16, No 2; pp. 81-88; 14 refs; Oct. 1974. (TAC: ST74 63002)

DRYING OF 'CARIOCA' DRY BEANS WITH SOLAR ENERGY IN A STATIONARY BIN, Gonzalo, R.M., de Carvalho Macedo, R.; Univ. Estadual de Campinas, Sao Paulo, Brazil; Pap ASAE; Pap 76-3021; 18 pp.; 11 refs, for Annual Meet, Univ. of Nebraska, Lincoln; June 27-30, 1976. (TAC: ST77 28005)

DRYING CROPS WITH SOLAR ENERGY: 12AB0028 P14 TP ASUSI.

DRYING CROPS WITH SOLAR HEATED AIR, Buelow, F.H.; REPR:MI AG B:11-58; 12AB0018; 1958; pp. 421-429; TP ASUSI.

GREENHOUSES & AQUACULTURE, DeKorne, Jim; pp 55; PSHCC.

HEATS BARN & MILK WITH SOLAR HEAT, Eakin, Everett; REPR:MD:12-10-53; 12AA0005; 1953; 1 p.; TP ASUSI.

- HEAT TRANSFER CHARACTERISTICS OF A SOLAR DRIER, Malik, M.A.S.,  
Buelow, F.H.; McGill Univ., Montreal; 1973; from International  
Congress, The Sun in the Service of Mankind; CONF-730737-(V).
- HOW TO BUILD A SOLAR CROP DRYER, New Mexico Solar Energy Assn.,  
Sante Fe, N.M.
- HOW TO BUILD A SOLAR HERB DRYER, Thomas, I.E. and Silles, M.;  
Community Environmental Council, El Mirasol Educational Urban  
Farm, 15 W. Anapamu St., Santa Barbara, CA 93101.
- HOW TO MAKE A SOLAR CABINET DRYER FOR AGRICULTURAL PRODUCE; Brace  
Research Institute; Leaflet No. L-6; McGill Univ., Ste. Anne  
de Bellevue, Quebec, Canada; 1973.
- HOW TO MAKE SOLAR CABINET DRYER FOR AGRICULTURAL PRODUCE, Lamand,  
T.A.; BRI D:MG; 12AB0017; 1966; 9 pp.; TP ASUSI.
- HOW TO USE SUN'S HEAT IN YOUR POULTRY BUILDINGS; Libbey-Owens-Ford  
Glass Co.; 12AA0015; 10 pp.; TP ASUSI.
- IMPROVED, INEXPENSIVE SOLAR COLLECTORS FOR AGRICULTURAL REQUIRE-  
MENTS, Schlag, J.H., Ray, D.C., Sheppard, A.P., Wood, J.M.;  
Georgia Institute of Technology, Atlanta; ASISES, Cape  
Canaveral, FL; 1976; from Sharing the Sun: Solar Technology  
in the Seventies; Vol. 7; Boer, K.W., Ed.
- INFLUENCE OF SLOPE AND ORIENTATION OF EFFECTIVENESS OF LIVESTOCK  
SHADES, Bond, T.E., Neubauer, L.W., Givens, R.L.; U.S. Dept.  
Agric. Res. Serv., Clemson, SC; 18 pp.; 8 refs; June 22-25,  
1975; ASAE Pap, 68th Annual Meet, Univ. of Calif., Davis; Pap  
75-4047; Publ by ASAE, St. Joseph, MI. (TAC: ST76 50004)
- LOW COST FARM THERMOPANE FOR SOLAR FARM BUILDING, Libbey-Owens-  
Ford Glass Co. 12AA0011 36P TP ASUSI.
- OARDC'S SOLAR-HEATED GREENHOUSE, Short, T.H., Badger, P.C., Rolle,  
W.L.; Ohio Agric Res & Dev Cent, Wooster, OH; Agric Eng;  
Vol 57:30-32, No 7; July 1976. (TAC: ST76 47012)
- POSSIBILITIES FOR THE UTILIZATION OF SOLAR ENERGY IN UNDER-  
DEVELOPED RURAL AREAS, Ward, G.T.; Bulletin 16, Agricultural  
Eng. Branch, Food and Agric. Organization of the U.N., Rome;  
1961.

REQUIRED WEATHER DATA FOR SIMULATION OF SOLAR GRAIN DRYING, Bakker-Arkema, F.W., Haight, J., Roth, M.G., Brooker, D.B.; Michigan State Univ., East Lansing; Paper ASAE, Pap 76-3020; 12 pp.; 14 refs, for Annual Meet, Univ. of Nebraska, Lincoln; June 27-30, 1976. (TAC: ST77 28001)

RESEARCH ON THE APPLICATION OF SOLAR ENERGY TO THE FOOD DRYING INDUSTRY, FOURTH QUARTER PROGRESS REPORT, OCTOBER 1, 1974-DECEMBER 31, 1974; Lukes, T.; Calif. Polytechnic State Univ., San Luis Obispo; 16 pp.; Dec. 1974; NSF/RANN, See ST74-63,018 for previous report; NP-20468, N75-20888. (TAC: ST76 60005)

SKYLIGHTING AND ENERGY CONSERVATION; A Summary of Current Conclusions; 1976; Wasco Products, Inc., Sanford, ME.

SOLAR CROP DRYING IN THE SUNSHINE STATE, Baird, C.D., Bagnall, L.O.; Univ. of Florida, Gainesville; ASAE Pap; 21 pp.; 5 refs; June 22-25, 1975; Pap 75-3004; Publ by ASAE, St. Joseph, MI. (TAC: ST76 60001)

SOLAR DRYER FOR DEHYDRATION OF PERISHABLE FOOD, Awad, A.H.; Univ. of Niger, Nsukka; Heliotech and Dev., Proc of the Int Conf, Nov. 2-6, 1975; Publ by Dev Anal Assoc., Cambridge, MA. (TAC: ST77 28023)

SOLAR-ELECTRIC DRYING OF CORN IN SOUTH DAKOTA, Peterson, W.H., Hellickson, M.A.; S.D. State Univ., Brookings; 17 pp., 13 refs., ASAE Pap, 68th Annual Meet, Univ. of Calif., Davis; June 22-25, 1975; Pap 75-3003; Publ by ASAE, St. Joseph, MI; 1975. (TAC: ST76 60011)

SOLAR HEAT HELPS KEEP DAIRY BARNs WARM & DRY, Eakin, W. Everett; REPR:MD:2-25-54; 12AA0006; 1954; 3 pp.; TP ASUSI.

SOLAR WARMED WATER FOR NEW MEXICO COWS, Lukens, A.M., Hamilton, M.E., Eng Exp Sta Bull No 25, Engr Experiment Sta, University Park, NM, Oct, 1962.

STUDY OF SOLAR DRYING HOTHOUSE, Prata, A. Salgado; EXTR:ELECTRI:4-64; 12AB0013; 1964; pp. 224-229; TP. ASUSI

A SURVEY OF SOLAR AGRICULTURAL DRIERS, Brace Research Institute; McGill Univ., Ste. Anne de Bellevue, Quebec, Canada; 1975.

THE SURVIVAL GREENHOUSE; AND ECO-SYSTEM APPROACH TO HOME FOOD  
PRODUCTION, DeKorne, James B.; Walden Foundation, El  
Rito, NM; 1975.

THERMAL DESIGN MODEL FOR A NATURAL AIR CONDITIONING SYSTEM WITH  
APPLICATION TO POULTRY SHEDS IN HOT, ARID REGIONS, Gupta, C.L.;  
Auroville Centre for Environmental Studies, Pondicherry-  
605002, India.

VIII. GLAZING

- ALTERNATIVE ENERGY SYSTEMS, Beitin, K., 2nd NPSC, Vol. 13 pp 857-869.
- A COMPREHENSIVE APPROACH TO WINDOW DESIGN FOR ENERGY CONSERVATION, Hastings, S.R., 2nd NPSC, Vol 2, pp 321-325.
- DAYLIGHTING DESIGN FOR THE SACRAMENTO STATE OFFICE BUILDING COMPETITION, Stenhouse, D.S., Wolf, C.H., 2nd NPSC, Vol. 2 pp 371.
- DAYLIGHTING OF BUILDING: A COMPENDIUM AND STUDY OF ITS INTRODUCTION AND CONTROL, Holton, J.K.; NBS, Washington, DC; 39 pp; Oct. 1976; NBSIR-76-1098, PB-259, 523/9WE. (TAC: ST77 33010) Available from NTIS.
- DETERMINATION OF SOLAR HEAT ENTERING A ROOM THROUGH TRANSPARENT GLASS SURFACES, Babaev, A.B., Rzaev, P.F.; Polytechnical Inst., Baku; Appl. Solar Energy; USSR, English Trans.; Vol 11, No 3-4.
- DETERMINATION OF SOLAR HEAT-GAIN THROUGH GLASS BLOCK (EXPERIMENTAL), Smith, W.A., Pennington, C.W., McCarthy, R.S., Farber, Erich; ASHRAE Transactions, Vol 71, Pt 2; 1965.
- DIRECT SOLAR HEATING, "WHY NOT JUST LET THE WINTER IN THE WINDOWS?" Bliss, Raymond W.; Consumer Conf on Solar Energy Devel; Albuquerque, NM; Oct. 2-5, 1976.
- THE ECONOMICS OF INSULATING GLASS, Tamblyn, Robert T.; ASHRAE Journal, Vol 15, No 6; 1973.
- EFFECT OF INFRARED TRANSPARENCY ON THE HEAT TRANSFER THROUGH WINDOWS: A CLARIFICATION OF THE GREENHOUSE EFFECT, Silverstein, S.D., Gen. Elec. Co, Schenectady, NY; Science, Vol 193, No 4249; July 16, 1976; pp. 229-231.
- EFFECT OF INNER SURFACE AIR VELOCITY AND TEMPERATURE UPON HEAT-GAIN AND LOSS THROUGH GLASS FENESTRATION, Pennington, C.W., McDuffie, D.E., Jr.; ASHRAE Transactions, Vol 76, pt 2; 1970.
- EFFECT OF WINDOW ORIENTATION ON INDOOR AIR TEMPERATURE, Givoni, B., and Hoffman, E.; Architectural Science Review; Sidney Academic Press, Sept. 1966.
- EFFICIENT ENERGY UTILIZATION IN BUILDINGS: THE ARCHITECTURAL WINDOW, Silverstein, S.D.; GE, Schenectady, NY; Intersoc Energy Convers Eng Conf, 10th, Red, Univ. of Delaware, Newark; pp. 685-694; 26 refs; Aug. 18-22, 1975; Pap 759105, Publ by IEEE, New York, NY; Cat n 75CHO 983-7, TAB. (TAC: ST76 50026).

ENERGY CONSERVATION AND WINDOW SYSTEMS, Am. Inst. Phys. Conf. Proc.;  
No 25; 1975; pp. 247-254.

ENERGY CONSERVATION AND WINDOW SYSTEMS, A REPORT OF THE SUMMER  
STUDY ON TECHNICAL ASPECTS OF EFFICIENT ENERGY UTILIZATION,  
JULY 1974-APRIL 1975, Berman, S.M., Silverstein, S.D.; Am.  
Phys. Soc., New York; Jan. 1975; NTIS; \$5.25.

ENERGY EFFICIENT WINDOWS PROGRAM ACTIVITIES, Selkowitz, S., 2nd  
NPSC, p. 335.

ENERGY TRANSPORT CONTROL IN WINDOW SYSTEMS, Berlad, A.L., Jaung, R.,  
Tutu, N., Yeh, Y.J., 2nd NPSC, p. 326.

EQUATIONS FOR SOLAR HEAT GAIN THROUGH WINDOWS, Stephenson, D.G.;  
Solar Energy; Vol 9:81-6, N2; April-June 1965. (TAC: ST74  
50225). Available from MA.SEA.

EXPERIMENTAL DETERMINATION OF HEAT LOSSES THROUGH SEVEN TYPICAL  
WINDOW UNITS, Proskiw, G; Northern Housing Committee,  
University of Manitoba, Winnipeg; 1976.

EXPLORING SPACE CONDITIONING WITH VARIABLE MEMBRANES, Johnson, T.E.,  
Wellesley-Miller, S., Chahroudi, D., Brooks, J., Wagner, S;  
Massachusetts Institute of Technology, Cambridge; NSF/RA/  
N-75-058; 117 pp.; April 1975; Cambridge Dept. of Architecture;  
PB-245 137/5WE, N76-16649. (TAC: ST75 50046).

THE FOOD AND HEAT PRODUCING SOLAR GREENHOUSE, Fisher, R., Yanda W.,  
John Muir Publication, P.O. Box 613, Santa Fe, NM, 1976.  
Available from Book People, 2940 Seventeenth St., Berkely, CA  
97410.

THE GLASS HOUSE, Hix John; The MIT Press, 28 Carleton Street,  
Cambridge, MA 02142; 208 pp., 1974; \$22.50.

HEAT GAIN THROUGH GLASS BLOCKS BY SOLAR RADIATION AND TRANSMITTANCE,  
Houghton, F; Heat., Piping, Air Cond., No 12, April 1940,  
p. 264.

HEAT GAIN THROUGH GLASS SKYLIGHT FENESTRATIONS: Vild, D.J., Parmelee,  
G.V., Heating, Piping, and Air Conditioning, Vol. 28:201-8,  
N.1, January 1956, (TAC: ST74 50229).

HEATING OF ROOMS AS A RESULT OF SOLAR RADIATION THROUGH WINDOWS,  
Gertis, K., Institut Fuer Technische Physik, Stuttgart,  
Germany; 1970; EDB-77:060630; In German. (TAC: ST77 34018).

INFLUENCE OF SUN ON THE HEATING OF ROOMS, Hottinger, M., Gesund.-Ing., Vol 58:779-784; Dec. 1935; EDB-77:041514; In German. (TAC: ST77 35008).

INSULATION AND OVERGLAZING, Vanuxem, R., Rev Alum; pp. 450-452; Oct. 1975; In French. (TAC: ST76 50064).

INVESTIGATION OF THE THERMAL LOAD OF ROOMS AS A RESULT OF SOLAR RADIATION THROUGH WINDOWS BY LABORATORY EXPERIMENTS USING SIMULATED GLOBAL RADIATION, Kalt, A.; European Space Research Organization, Paris, France; DLR-FB-73-73; ESRO-TT-92; 77 pp., refs; Sept. 1974. (TAC: ST75 50403).

LABORATORY STUDY OF THE EFFECT OF WINDOW SIZE AND LOCATION ON INDOOR AIR MOTION, Givoni, B.; Architectural Science Review; Sidney Academic Press, June, 1965.

LOW COST FARM THERMOPANE FOR SOLAR FARM BUILDINGS, Libbey-Owens-Ford Glass Co; 12AA0011 36P TP ASUSI.

LOW-COST SOLAR ATTIC HEATING SYSTEM FOR HOUSES INCLUDING DESIGN AND PERFORMANCE DATA, Zornig, H.F., Godbey, L.C., Bond, T.E.; USDA, Agric Res Serv, Clemson, SC; Pap 76-4054; 28pp, 13 refs, 1976; Pap ASAE for Annual Meet, Univ. of Nebraska, Lincoln; June 27-30, 1976. (TAC: ST77 30047).

MEASUREMENT OF SOLAR OPTICAL PROPERTIES OF GLAZING MATERIALS, Pennington, C.W., Moore, G.L.; ASHRAE Journal, Vol 13, No 7; 1971.

NATURAL CONVECTIVE SOLAR COLLECTORS, Morris, W.S., 2nd NPSC, p. 596.

NEW DEVELOPMENTS IN ARCHITECTURAL GLASS, Yellott, J.I.; Arizona State Univ., 1973, from International Congress, The Sun in the Service of Mankind, 3:313:200.

OPTICAL COATINGS FOR SOLAR HEATING AND COOLING, Mar, N.Y.B., Peterson, R.E., Lin, J.H.; Honeywell, Inc., Ctr Syst & Res, Minneapolis, MN; Journal of the Optical Society of America, Vol 67:252, N2; 1977. (TAC: ST77 21039).

PASSIVE VERSUS ACTIVE COLLECTOR SYSTEMS: A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY AND ECONOMICS, Converse, A.O., Holdridge, T.B., Taft, D.C., 2nd NPSC, p. 790.

PLASTIC COVERS FOR SOLAR COLLECTORS, Whillier, A; Solar Energy, Vol 7; 1963, pp. 148-151.

PLASTIC FILMS FOR SOLAR ENERGY APPLICATIONS, Edlin, F.E. and Willauer, D.E.; UN: Rome; E35-S33.

PUBLIC INFORMATION MATERIAL: DISCUSSION OF TWO ENERGY CONSERVING WINDOW INNOVATIONS CURRENTLY BEING DEVELOPED: THE HEAT MIRROR AND OPTICAL SHUTTER: DOE, 1977; Source: Tech. Info. Ctr.

RADIATION HEATING THROUGH TRANSPARENT AND OPAQUE WALLS, Safdari, Y.B.; REPR:SOL EN:V10 M1:1966; 4B0120; 1966; P53-8 TP ASUSI.

REFLECTING GLASSES: ESTHETIC AND COMFORT ELEMENT IN THE DWELLING, Rouvier, A; Saint Gobain Industries, Neuilly, France; from International Congress, The Sun in the Service of Mankind, 3:313200; In French.

SEMI-TRANSPARENT SOLAR COLLECTOR WINDOW SYSTEMS, N.; Rutgers Univ., New Brunswick, NJ; Sol Energy, Vol 17; pp. 159-165; 29 refs; July 1975. (TAC: ST75 40401).

SINGLE AND MULTIPLE GLASS GLAZING MEDIA IN PASSIVE SOLAR ENERGY CONSTRUCTION, Clarkson, C.W., Lilly, M. L., 2nd NPSC, p. 340.

SKYLIGHT ENERGY PERFORMANCE: AN EVALUATION OF THE EFFECT OF SKYLIGHTS ON BUILDING ENERGY REQUIREMENTS, Center for Industrial and Institutional Development, Univ. of New Hampshire, Durham; NH 1975.

SOLAR ENERGY APPLICATIONS FOR HEAT-ABSORBING GLASS, Deminet, C.; Boeing Aerospace Co., Seattle, WA; in International Solar Energy Society, Annual Meeting, Orlando, FL, June 6-10, 1977, Proceedings; Sections 1-13; A78-11212 01-44; Cape Canaveral, FL, International Solar Energy Society; 1977; pp. 12-6 to 12-8. (NASA78A11273).

SOLAR ENERGY TRANSMITTANCE OF EIGHT-INCH HOLLOW GLASS BLOCK, Parmelee, G.V., Aubele, W.W.; Heat, Piping, Air Cond., V 21:111-12-; Sept. 1949; EDB-77:060613. (TAC: ST77 33013).

SOLAR HEAT GAIN THROUGH COATED GLASS, Yellott, John I.; 4DH0044; 1964; 11 P TP. ASUSI.

SOLAR HEAT-GAINS THROUGH DOMED SKYLIGHTS, Schutrum, L.F., Ozisik, N.; ASHRAE Transactions, Vol 67, 1961; ASHRAE Journal, Vol 3, No 7, 1961.

SOLAR HEAT-GAIN THROUGH THREE TYPES OF FLAT WINDOW GLASS, Schutrum, L.F.; ASHRAE Transactions, Vol 68, 1962.

SOLAR HEAT GAIN THROUGH UNSHADED GLASS, Waters, J., Richardson, D.; from Sunlight in Buildings, Proceedings of the CIE, Intersessional Conference; Newcastle-upon-Tyne; 1965.

SOLAR HEAT GAIN THROUGH WINDOWS; Pilkington Glass, Environmental Advisory Services; April 1974; 8 pp.

SOLAR MEMBRANES, Chahroudi, Day, Building Research Institute, Washington, DC; 1973.

SOLAR OPTICAL PROPERTIES, HEAT-TRANSFER COEFFICIENTS AND SHADING COEFFICIENTS FOR ARCHITECTURAL GLASS, Yellott, John I.; ASHRAE Journal, Vol 13, No 3; 1971.

SOLAR RADIANT GAINS THROUGH DIRECTIONAL GLASS EXPOSURE, Cramer, R.D., Neubauer, L.W.; Heating, Piping & Air Conditioning, Vol 30:155-62, N 11; Nov. 1958. (TAC: ST74 50403)

SOLAR RADIATION THROUGH WINDOWS, Gertis, K.; Veroeffentlichungen aus dem Institut fuer Technische Physik, Stuttgart, Heft, No 65; 1970; 35 pp.

SPECIAL GLASSES AND MOUNTINGS FOR THE UTILIZATION OF SOLAR ENERGY, Peches, I.; UN: Rome; E S91.

SUN-EXPOSED GLASS WALLS PROVIDE TEST FOR SOLAR HEATING, Taylor, W.; Glass Ind., Vol 24; Sept. 1943.

SUNLIGHT IN DWELLINGS, Hohm, W.; ISES73:EH54 4DF0011; 1973; 5P TP ASUSI.

SYSTEMS ANALYSIS FOR SKYLIGHT ENERGY PERFORMANCE: A PROCEDURE FOR THE SYSTEMS ANALYSIS OF THE EFFECT OF SKYLIGHTS ON BUILDING LIGHTING, COOLING AND HEATING SYSTEMS ENERGY REQUIREMENTS, Boyle, Joseph; Center for Industrial and Institutional Development, Univ. of New Hampshire, Durham; 1975.

THEORETICAL ANALYSIS OF SOLAR HEAT GAIN THROUGH INSULATING GLASS... SHADING; REPF:ASHRAE J:8-63; 4DH0007; 1963; pp. 79-90; TP ASUSI.

THEORETICAL CALCULATION OF THE TOTAL HEAT ENTERING THROUGH A WINDOW WITH A SHADING SYSTEM, Gul'Karov, E.S.; Tashkent Regional Scientific Research Institute for the Experimental Design of House and Industrial Buildings; Appl. Solar Energy; USSR-Eng. Trans.; Vol 6, No 4; 1970; pp. 82-86.

- THERMAL BALANCE AT WINDOWS, Littler, J.G.F.; Martin Centre for Architectural and Urban Studies, Cambridge, England; from 1975 International Solar Energy Congress and Exposition; ISES, Rockville, MD; 1975.
- THERMAL INSULATION AND DOUBLE GLAZING, Ambrose, E.R.: Heat, Piping, Air Cond., Vol 47:57-58; 80, N 11; Oct. 1975. (TAC: ST76 50001).
- THERMAL PERFORMANCE OF IDEALIZED DOUBLE WINDOWS, UNVENTED, Christensen, G., Brown, W.P., Wilson, A.G.; ASHRAE Transactions, Vol 70; 1964.
- THERMAL RADIATIVE PROPERTIES OF GLASS, Hsieh, C.K., Coldwey, R.W.; ASHRAE Transactions, Vol 18, Pt 2; 1975.
- THIN FILMS IN ENERGY SYSTEMS, Ross, R.S.; Kent State Univ., Ohio; Bicentennial of Materials, Azusa, CA; Vol 8; 1976; Society for the Advancement of Materials and Process Engineering; EDB-77:041575. (TAC: ST77 20024).
- TRANSPARENT HEAT MIRRORS FOR PASSIVE SOLAR HEATING APPLICATIONS, Selkowitz, S., 2nd NPSC, Vol. 2 pp 329-334.
- THE USE OF SOUTH FACING WINDOWS FOR SOLAR HEATING IN A NORTHERN CLIMATE, Gilpin, R.R.; Dept. of Mechanical Engineering, Univ. of Alberta, Canada; Aug. 22-24, 1977.
- VOLUNTARY STANDARD PROCEDURE FOR CALCULATING SKYLITE ANNUAL ENERGY BALANCE, Architectural Alum Manuftrs Assoc, Publ AAMA 1602.1.1977.
- WINDOWS, Ayres, E; Scientific American, Vol 184:60-65; Feb. 1951; EDB-77:060698. (TAC: ST77 33050).
- WINDOWS AS AN ENERGY FACTOR, Hagman, F; Cold Regions Research and Engineering Lab, Hanover, NH; 64 pp; Jan. 1977; CRREL-TL-579, AD-A037 480/1WE. (TAC: ST77 32068).
- WINDOWS AS AN ENERGY FACTOR, INSULATING SHUTTERS: FUNCTION, CONSTRUCTION, ECONOMY, Svensk, Bygg+janst, Stockholm, 1975 in Swedish.
- WINDOW DESIGN AND SOLAR HEAT GAIN: Her Majesty's Stationery Office, London; 1968.

IX. STORAGE: HEAT CONDUCTION AND RETENTION

THE ABSORPTION OF WATER BY PLASTICS, Blank, F.; Royal Aircraft Establishment; Farnborough, England; RAE-Lib-Trans-1814; BR44474; N75-13987; 16 pp., refs; Oct. 1974. (TAC: ST75 30007)

ACOUSTICAL AND THERMAL PERFORMANCE OF EXTERIOR RESIDENTIAL WALLS, DOORS AND WINDOWS, Sabine, H.J., Lacher, M.B., Flynn, D.R., Quindry, T.L.; Owens-Corning Fiberglass Corp., Granville, OH; Natl Bur Stand Building Sci Ser, 158 pp; 130 refs; N77; Nov. 1975. (TAC: ST76 50023)

ALTERNATIVES IN ENERGY CONSERVATION: THE USE OF EARTH COVERED BUILDINGS, Moreland, F.L., ed.; Univ. of Texas, Arlington; NSF-RA-760006; Alternatives in Energy Conservation: The Use of Earth Covered Buildings, Proceeds of a Conference, Fourth Worth, TX; July 9-12, 1975. (TAC: ST77 33071)

ANALYTICAL AND EXPERIMENTAL STUDY OF COMBINED CONDUCTION-RADIATION ENERGY TRANSFER IN STAGNANT WATER, Snider, D.M., Viskanta, R.; Purdue Univ., Lafayette, IN, School of Mech. Eng.; Office of Water Research and Tech., Washington, DC; Nov. 1973.

AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, Corliss, J.M., Jakob, F.E., Klausning, T.A., Liu, C.Y., Stickford, G.H., 2nd NPSC, p. 106.

APPLICATION OF PHASE CHANGE MATERIALS IN A PASSIVE SOLAR SYSTEM, Faunce, S.F., Guceri, S., Meaklin, J.D., Sliwowski, J.H., 2nd NPSC, p. 475.

APPLICATION OF THERMIC DIODE SOLAR PANELS, Buckley, S.; MIT, from Application of Solar Energy, Wu, S.T., Ed.; Univ. of Alabama, Huntsville; 1975.

AQUIFERS FOR SOLAR POWER STORAGE; Science News, Vol 109; Jan. 1976.

ARE WINDOWS NECESSARY, Woodyard, D.; Engineering, Vol. 211, No. 8; Nov. 1971; pp. 876-879.

ATTIC CONCENTRATOR TYPE SOLAR ENERGY COLLECTOR, Cottingham, J.G.; Brookhaven National Lab., Upton, NY; 12 pp.; N77-11539; Feb. 4, 1974; Avail: NTIS. (TAC: ST77 21005), BNL-50493, (TAC: ST77-33007).

AVOID TUNNEL VISION IN IMPLEMENTATION OF ENERGY CONSERVATION BUILDING STANDARDS, van der Meer, W.J.; School of Architecture and Planning-Univ. of N.M., Albuquerque, NM; excerpt from Research and Innovation in the Building Regulatory Process, NBS Special Publication 473.

CALCULATION OF SOLAR HEAT GAIN THROUGH SINGLE GLASS, Yellott, John I., Solar Energy, Vol. 7, No. 4; 1963.

CALCULATION OF THERMAL RADIATIVE PROPERTIES OF GLASS, Hsieh, C.K.; ASHRAE Transactions, Vol 82, Pt 1, 1976.

CENTRAL SOLAR ENERGY UTILIZATION SYSTEM, Yuan, S.W., Galowin, L.S.; Geo. Wash. Univ., Washington, DC; Semin on Future Energy Prod-Heat and Mass Transfer Prob; Dubrovnik, Yugoslavia; Aug. 25-30, 1976, Publ by Hemisphere Publ Corp, Washington, DC; Vol 1:139-148, 8 refs; 1976. (TAC: ST77 33028)

THE CHOICE OF MATERIALS FOR HEAT CONDUCTION AND STORAGE IN SOLAR TECHNOLOGY, Camia, F.M.; Group ABC, Ecole d'Architecture de Marseille-Luminy. CNRS, Paris 1976.

CLIMATE UNDER GLASS--HEAT BALANCE, Seemann, J; World Meteorological Organization; Geneva, Switzerland; Avail. NTIS HC; WMO, Geneva; \$3.75. (NASA74N23051)

CLIMATICALLY ADAPTED STRUCTURES, Rogers, B.T. and Baer, Steve; p. 171, PSHCC.

COMBINED CONDUCTION-RADIATION ENERGY TRANSFER IN STAGNANT WATER, Snider, D.M. and Viskanta, R.; Vol 10, No 5; Water Resources Research; Oct. 1974; 939 pp.

COMBINED THERMAL AND AIR-LEAKAGE PERFORMANCE OF DOUBLE WINDOWS, Bursey, T., Green, G.H.; ASHRAE Transaction, Vol 79, Pt 2; 1973.

COMFORT-RANGE THERMAL STORAGE, Berlad, A.L.; State Univ. of New York, Stony Brook; Lin, H.C., Salzano, F.J., Batey, J.; Energy, Pergamon Press, Oxford, Vol 2, No 2; June 1977; pp. 161-169.

COMPARISON OF RIGID PLASTIC MATERIALS WITH GLASS FOR GREENHOUSE CLADDING, Harnett, R.; Proceedings of Plastics in Agriculture and Horticulture Conference; Wye Coll, Kent, England; 6 pp.; March 1974; Publ. by Plast. Inst., London; 1974.

A COMPARISON OF VERY LIGHTWEIGHT WALLS OF WOOD, METAL AND GLASS VERSUS CONCRETE MASONRY IN ENERGY CONSERVATION, Lenchuk, Paul, & Ramseur, Richard; National Concrete Masonry Assn., CM - 230; 1976.

COMPUTER PROVES BRICK WALLS REDUCE FUEL BILLS: BIA, McLean, VA 22101.

CONCRETE MASONRY IN PASSIVE SOLAR BUILDINGS, National Concrete Masonry Association, NCMA-TEK #90, McLean, VA 22101, 1977.

CONCRETE MASONRY-THE ENERGY CONSERVING CONSTRUCTION MATERIAL, Redmond, Thomas B. and Hotling, William W., Jr.; The Construction Specifier; CSI, Washington, DC; July 1977.

CONDENSATION BETWEEN THE PANES OF DOUBLE WINDOWS, Wilson, A.G., Nowak, E.S.; ASHRAE Transactions, Vol 65; 1959.

CONGRUENTLY MELTING MATERIALS FOR THERMAL ENERGY STORAGE, Kauffman, K. and Grunfest, I.; Report No. NCEMPT-20, NSF/RANN Grant Nos. GI29729; National Center for Energy Management & Power, Univ. of Pennsylvania, Philadelphia; Nov. 1973. (TAC: ST74 42224)

CONSERVATION AND BETTER UTILIZATION OF ELECTRIC POWER BY MEANS OF THERMAL ENERGY STORAGE AND SOLAR HEATING, Altman, Manfred, Prin, investigator; Phase II Progress Report No. NSF/RANN/SE/GI27976/72/4; University of Pennsylvania; Dec. 31, 1972.

CONTRIBUTION TO THE SOLAR ARCHITECTURE ON THE MOON: MIXED WALLS SIMULTANEOUSLY TRAPPING AND DISSIPATING ENERGY, Touchai, M.; Energie Solaire, Vol 20; July 1971.

THE CONTRIBUTION OF SOLAR GAIN TO SPACE HEATING, Davies, M.G.; Dept. of Building Engineering, The University of Liverpool, U.K.

A CRITICAL COMPARISON, A STUDY OF THE RELATIVE ECONOMIC PERFORMANCE OF MASONRY VERSUS GLASS OFFICE BUILDINGS; Acme Brick, Ft. Worth, Tx., 2nd print.

DAYLIGHTING AS A FACTOR IN OPTIMIZING THE ENERGY PERFORMANCE OF BUILDINGS, Arumi, Francisco N., Ph.D., Numerical Simulation Laboratory, Work Paper Series, Research Program, School of Architecture, University of Texas, Austin.

THE DESIGN AND ANALYSIS OF A TROMBE WALL FOR A STOCKWALL CABIN; Univ. of Manitoba; 62 pp.; April 1977.

DESIGN CONSIDERATIONS OF AIR-COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS, Balcomb, J.D., Hedstrom, J.C., and Rogers, B.T.; P. 155, PCHCC.

DESIGN INNOVATIONS: THE SUNCATCHER AND THE COOL POOL, Hammond, Jonathan, 2nd NPSC, Vol. 1 p. 137-140.

DRUM WALL, Baer, S.; Zomeworks, Albuquerque, NM; 1973; pp. 186-187.

DRUM WALL PLANS; Baer, S., Zomeworks, P. O. Box 712; Albuquerque, NM 87103; \$5.00. (TAC: ST74 55246)

A DYNAMIC HEAT STORAGE SYSTEM, Etherington, T.L.; ASHVE Transaction, Vol 64, 1958; ASHVE Journal, Vol 29, No 12; 1957.

DYNAMIC THERMAL PERFORMANCE OF AN EXPERIMENTAL MASONRY BUILDING, Peavy, Bradley A., et. al.; U.S. Dept. of Commerce, National Bureau of Standards, Washington, DC; 1973.

EARTH AIR HEAT EXCHANGE SYSTEM, Elmer, D.B., Hourmanesh, M., Hourmanesh, R., 2nd NPSC, p. 146.

EARTH AS HEAT SOURCE AND SINK FOR HEAT PUMP, Skau, N.H., Guernsey, E.W., and Betz, P.L.; ASHVE Transactions, Vol 64; 1958; ASHVE Journal, Vol 29, No 12; 1957.

EFFECTIVE "U" FACTORS-A NEW METHOD FOR DETERMINING AVERAGE ENERGY CONSUMPTION FOR HEATING BUILDINGS, van der Meer, Wybe J., Bickle, Larry W.; The New Mexico Energy Institute, Univ. of N.M; June 15, 1977. Av. from NTIS 54 pp. (paper)

EFFECTIVE "U" VALUES, Van der Meer, Wybe J.; N.M. Energy Institute, Albuquerque, NM; July 1977.

ENERGY CONSCIOUS DESIGN FOR BUILDINGS; National Concrete Masonry Assn., McLean, VA 22101; NCMA-TEK 82; 1976.

ENERGY CONSERVATION WITH CONCRETE MASONRY; National Concrete Masonry Assn.; NCMA-TEK 58; McLean, Va., 1974.

ENERGY ROOF, Pittinger, A.L.; Nov. 30, 1976; Patent, U.S. Patent 3,994,278, EDB-77:060656. (TAC: ST77 30156)

THE ENERGY ROOF: A NEW APPROACH TO SOLAR HEATING AND COOLING, Pittinger, L., White, W., Yellott, J., 2nd NPSC, p. 218.

ENERGY SAVING BY ACCUMULATION, Svennberg, S.A., Vaermegrund, A.B.; Stockholm; 1976; NTIS.

ENERGY (HOT WATER) STORAGE IN GROUNDWATER AQUIFERS, Ebeling, L.L., Reddell, D.L.; Am. Soc. of Auto. Engineers, Chicago; 1976.

ENERGY STORAGE USING BUILDING HEAT CAPACITY GROUP REPORT, Ruddy, W.; Univ. of Pittsburgh; ASHRAE, New York; 1975.

ENVIRONMENTAL CHARACTERISTICS OF A SMALL UNDERGROUND FALLOUT SHELTER, Achenbach, P.R., Drapeau, F.J. and Phillips, C.W.; ASHRAE Journal, Vol. 4, No 1; 1962.

ENVIRONMENTAL PROTECTION IN SUBTERRANEAN SHELTERS, Viessman, Warren; ASHVE Journal, Vol 28, No 6; 1956.

ESTIMATING U-FACTORS FOR CONCRETE MASONRY CONSTRUCTION; NCMA-TEK 12; National Concrete Masonry Assn.; 1969.

EXPERIMENTAL DETERMINATION OF THE AMOUNT OF STORED ENERGY AS A FUNCTION OF THE TYPE AND DISPOSITION OF THE STORING MEDIUM IN SOLAR HOTOUSES, Umarov, G.Y.A., Baibutaev, K.B. and Yakubov, YU.N.; Bukhara Education Institute; Appl. Solar Energy; USSR-Engl. Trans.; Vol. 7, No 6; 1971; pp 90-93.

EXPERIMENTAL STUDY OF AQUIFER HEATING IN SOLAR-ENERGY ACCUMULATION, Rabbimov, R.T., Zakhidov, R.A., and Umarov, G.Ya.; Starodubtsev Physicotechnical Institute of the Uzbek SSR Academy of Sciences; Appl. Solar Energy; USSR-Engl. Transl.; Vol 10, No 2; 1974.

FIELD STUDIES OF HEAT LOSSES FROM CONCRETE FLOOR PANELS, Schutrum, L. F., Humphreys, C.M. and Franks, C.V.; ASHVE Transactions, Vol 57; 1951; ASHVE Journal, Vol 23, No 1; 1951.

FLUID DYNAMICS OF SELECTIVE WITHDRAWAL IN SOLAR PONDS, Daniels, D.G.; Solar Energy Consultant, Oakland, CA; from 1975 International Solar Energy Congress and Exposition; ISES, Rockville, MD; 1975.

FOCUSING ROOF APERTURE AND WATER-WALL PASSIVE SOLAR HEATING COMBINATIONS, Fraker, H., Glennie, B., 2nd NPSC, p. 150.

FOUR GENERATIONS OF WATERWALL DESIGN, Maloney, T., 2nd NPSC, Vol. 2 p. 489-492.

FUSIBLE SALTS AND NITROGEN DIOXIDE ADSORPTION FOR UTILIZING SOLAR ENERGY, Seybold, R., B.S. Thesis, University of Wisconsin, Madison; 1956.

GROUND USED AS ENERGY SOURCE, ENERGY SINK, OR FOR ENERGY STORAGE, Eckert, E.R.G.; Univ. of Minnesota, Minneapolis; Energy; Pergamon Press, Oxford; Vol 1:315-323, No 3, 4 refs; Sept. 1976. (TAC: ST77 23029)

HEAT AND MASS EXCHANGE STUDIES UNDER JOINT CONVECTION ON VERTICAL WALLS HEATED BY SOLAR RADIATION, Bairiev, A.G., Brdlik, P.M. and Kozhinov, I.A.; Physicotechnical Inst. of the AS Turkmen SSR; Appl. Solar Energy USSR-Engl. Transl.; Vol 8, No 5; 1972; pp. 38-43.

HEAT AND MOISTURE CONDUCTION IN UNSATURATED SOILS, Haven, J.A. and Babcock, R.E.; Arkansas Univ., Fayetteville; Water Resources Research Center; Publ-25, W75-08477, OWRT-A-014-ARK (2); PB-242, 328/3WE; 117 pp.; June 1974. (TAC: ST75 42006)

HEAT GAIN; BIA Technical Notes on Brick Construction, Apr.-May 1974; Brick Inst. of America, McLean, VA 22101.

HEAT GAIN BY CONDUCTION THROUGH EXTERIOR WALLS AND ROOFS-TRANSMISSION MATRIX METHOD, Buffington, Dennis E; ASHRAE Transaction, Vol 81, Pt 2; 1975.

HEAT GAIN THROUGH WALLS AND ROOFS AS AFFECTED BY SOLAR RADIATION, Houghton, F.; Heat., Pipin, Air Cond.; May 1942; No. 206.

HEATING A SOLID BY SOLAR RADIATION, Cobble, M.H.; Solar Energy, Vol 8, No 2; 1964.

HEAT STORAGE EFFECT IN BUILDINGS; Isfaelt, Engelbrekt, Tech Hochsch, Stockholm, Sweden; Klim Kaelte Ing; Vol 1:21-24, No 10; Oct. 1973; In German. (TAC: ST74 50235)

HEAT STORAGE FOR SOLAR ENERGY SPACE HEATING, Mathur, K.N.; Solar Energy; Vol 6, No 3, 1962; pp. 110-112.

HEAT STORED UNDER BUILDING CUTS OPERATING COSTS; Eng. News Record; Vol 192, No 11; 1974; p. 20.

HEAT TRANSFER AND THERMAL ENERGY TRANSPORT-GEOSTORAGE, Peube, J.L., Hewitt, G.F., Eckert, E.R.G., Hahne, E., Hoffman, H.W., LeGoff, P., Sandner, H., Stephenson, D., Kurti, N.; pp. 35-48; 1976; In Thermal Energy Storage; NATO Science Committee Conference, Turnberry, Scotland; March 1-5, 1976, Report, Brussels, NATO; A76-45543 23-44; A76-45547. (TAC: ST77 23016)

HEAT TRANSFER IN LARGE BUILDINGS, Komkov, Wadim; International Masonry Inst., Washington, DC; no date.

HEAT TRANSFER MECHANISM, THE 1967 ODEOILLO HOUSE INTEGRATED COLLECTION AND STORAGE SYSTEMS, Anderson, Bruce. p. 23, PSHCC.

HEAT TRANSFER, VOLUME ONE, Jakob, Max; John Wiley and Sons, Inc., New York; 1949.

HEAT TRANSMISSION, McAdams, William H.; McGraw-Hill Book Co., New York, Third Edition; 1954.

HEAT TRANSMISSION BY HOT WATER THROUGH LONG PIPELINES, Thunborg, S.; SLA-73-0207; July 1973; Sandia Labs, Santa Fe, N.M., Exploratory Projects, Div. 1.

HEAT TRANSMISSION COEFFICIENTS OF BRICK MASONRY, WALLS; Brick Institute of America, 1750 Old Meadow Rd., McLean, VA 22101; BIA Technical Notes on Brick Construction, Aug./Sept. 1974.

HEAVY BUILDING ENVELOPES AND DYNAMIC THERMAL RESPONSE, Catani, Mario J. and Goodwin, Stanley E; ACI Journal; Feb. 1976.

HYGIENIC CLEAN WINTER SPACE HEATING WITH SOLAR AND HYDRO-ELECTRIC ENERGY ACCUMULATED DURING THE SUMMER AND STORED IN INSULATED RESERVOIRS, Schonholzer, E.; Solar Energy, Vol 12, No 3; May 1969; pp. 379-385.

HYCSOS-A SOLAR HEATING COOLING AND ENERGY CONVERSION SYSTEM BASED ON METAL HYDRIDES, Gruen, D.m., McBeth, R.L., Mendelsohn, M., Nixon, J.M., Schreiner, F., Sheft, I.; Argonne National Laboratory, Argonne, IL; Vol 1:681-687; 1976; In Intersociety Energy Conversion Engineering Conference, 11th; State Line, Nevada; Sept. 12-17, 1976, Proceedings, New York, American Institute of Chemical Engineers, A77-12662 02-44; A77-12740. (TAC: ST77 23005)

INDUSTRIAL PROCESS HEAT FROM SHALLOW SOLAR PONDS, Clark, A.F.; Calif. Univ., Livermore, CA; 8 pp.; 1976; CONF-760423-1, UCRL-77801; PC\$3.50/MF\$3.00. (TAC: ST76 60036)

AN INVESTIGATION OF ARCHITECTURAL ADAPTATIONS OF THERMAL PONDS AND MOVABLE INSULATION, Haggard, Kenneth; p. 307-309 PSHCC, 1976, (ERDA-DOE 57)

LATENT HEAT AND SENSIBLE HEAT STORAGE FOR SOLAR HEATING SYSTEMS, Lorsch, H.G.; Penn. Univ. National Ctr. for Energy Mgmt. and Power; NTIS; May 1974.

LLL-SOHIO SOLAR PROCESS HEAT PROJECT Report No. 3; 111 Solar Energy Group, Dickinson, W.C., Clark, A.F., Iantuono, A., Parsons, R.E., Chakedis, D.V.; Calif. Univ., Livermore, CA; 29 pp.; April, 1976; UCID-16630-3; PC\$4.00/MF\$3.00. (TAC: ST76 60037)

LOW COST MODULAR PASSIVE SOLAR FURNACE SYSTEM DEVELOPMENT; Kalwall Corp. Manchester, N.H.

LOW-COST SOLAR ATTIC HEATING SYSTEM FOR HOUSE INCLUDING DESIGN AND PERFORMANCE DATA, Zornig, H.F., Godbey, L.C., Bond, T.E.; USDA, Agric Res Serv, Clemson, SC; Pap 76-4054; 28 pp.; 13 refs; 1976; Pap ASAE for Annual Meet, Univ. of Nebraska, Lincoln; June 27-30, 1976. (TAC: ST77 30047)

LOW ENERGY UNDERGROUND HOUSE, Eccli, Sandy; ALT SE: 02/74; pp. 30-31; TP ASUSI.

- LOW TEMPERATURE THERMAL ENERGY STORAGE, Hodgins, J.W., Quale, B., Koeford, J., Swartmen, R.K., Aureille, R, Glew, D.N., Grjebine, T., Gruen, D.M., Hooper, F.C., Royle, J.K.; pp. 27-34; 1976; In, Thermal Energy Storage; NATO Sci Comm Conf, Turnberry, Scotland; March 1-5, 1976; Report Brussels, NATO, A76-45543, A76-45546. (TAC: ST77 23006)
- THE "M" FACTOR: THE USE OF MASS TO SAVE ENERGY IN THE HEATING AND COOLING OF BUILDINGS; Masonry Industry Committee, 3rd print.
- A MANUAL METHOD TO CALCULATE THE DYNAMIC ENERGY PERFORMANCE OF WALLS; an appendix to the report, Thermal Inertia in Architectural Walls, Arumi, Francisco N.; School of Architecture, Univ. of Texas, Austin; Sept. 1976.
- MOSONRY CONSERVES ENERGY; IMI, reprint of August 1977 issue of Buildings Magazine.
- MEANS TO HARNESS AND STORE SOLAR ENERGY, Edmondson, W.B.; 16C0047; 10 pp.; TP ASUSI.
- MEASUREMENT OF THE INFRARED SPECTRAL REFLECTION OF SOME COMMON MINERALS AND ROCKS USING MULTIPLE-SCAN INTERFEROMETRY, Low, M.J.D.; Applied Optics, Vol 6:1503, N9; Sept. 1967. (TAC: ST74 30034)
- MEASUREMENT OF THE SPECTRAL EMISSION OF INFRARED RADIATION OF MINERALS AND ROCKS USING MULTIPLE-SCAN INTERFEROMETRY, Low, M.J.D. and Coleman, I.; Applied Optics, Vol 5:1453, N9; Sept. 1966. (TAC: ST74 30033)
- METAL HYDRIDES FOR THERMAL ENERGY STORAGE, Libowitz, C.G.; Materials Research Center, Allied Chemical Corp., Morristown, NJ 07960.
- A METHOD OF STIMULATING THE PERFORMANCE OF A PEBBLE BED THERMAL ENERGY STORAGE AND RECOVERY SYSTEM, Mumma, S.A., Marvin, W.C.; ASME Pap 76-HT-73; 6 pp.; 1976; Amer Soc of Mech Eng and Am Inst of Chem Eng; Heat Transfer Conf, St. Louis, MO; Aug. 9-11, 1976; A76-46596. (TAC: ST77 23013)
- METHODOLOGY FOR THE DETERMINATION OF OVERALL HEAT LOSSES AND THERMAL INERTIA FROM EXPERIMENTS ON COMPLETED HOUSES, Proskiw, G.; Northern Housing Committee, Univ. of Manitoba, Winnipeg; 1976.
- METHODS OF TESTING THERMAL STORAGE DEVICES BASED ON THERMAL PERFORMANCE; ASHRAE, 97-77; New York, NY; 1977; 22 pp.

MODELING OF A HEAT-PIPE OPERATED THERMAL STORAGE DEVICE, Yang, W-J., Lee, C-P.; Univ. of Michigan, Ann Arbor; ASHRAE Trans, Vol 82:634-643; pt 1, 3 refs; 1976; Proc of the ASHRAE Semiannual Meet, Dallas, TX; Feb. 1-5, 1976. (TAC: ST77 23028)

NEW BUILDING MATERIALS AND COMPONENTS FOR PASSIVE HEATING OF BUILDINGS, Johnson, Timothy; p. 288; PSHCC.

NEW DIRECTIONS IN HEAT STORAGE FOR BUILDINGS, Swet, C.J.; ERDA; Am. Section of the Intl. Solar Energy Society, Cape Canaveral, FL; 1976; from Sharing the Sun: Solar Technology in the Seventies, Vol 8; Boer, K.W., Ed.

NEW FINDINGS ON ENERGY CONSERVATION WITH CONCRETE MASONRY; National Concrete Masonry Assn. McLean, Va., 1975; NCMA-TEK #68.

NEW INSIGHTS INTO ENERGY USE AND CONSERVATION IN STRUCTURES; Lenchuk, Paul, & Ramseur, Richard; National Concrete Masonry Assn., McLean, Va. CM-227; 1975.

THE NONCONVECTING SOLAR POND: AN OVERVIEW OF TECHNOLOGICAL STATUS AND POSSIBLE POND APPLICATION, Styris, D.L., Zaworski, R., Harling, O.K.; Batelle-Pacific Northwest Labs, Richland, WA; 76 pp.; Jan. 1975; BNWL-1891. (TAC: ST75 46002)

THE NONCOVECTING SOLAR POND APPLIED TO BUILDING AND PROCESS HEATING, Styris, D.L., Harling, O.K., Zaworski, R.J., Leshuk, J.; Oregon State Univ., Corvallis, OR; Solar Energy, Vol 18:245-251, No 3; 13 refs; 1976; Contract No. AT(45-1)-1830; International Solar Energy Society; International Solar Energy Congress and Exposition, Los Angeles; July 28-Aug. 1, 1975; A76-39534. (TAC: ST76 46004)

A NON-TECHNICAL EVALUATION OF FOUR DIFFERENT CONCRETE WALL SOLAR COLLECTOR CONFIGURATIONS, Anderson, B., Schully, D. and Michal, C.; Total Environmental Action, Inc., Harrisville, N.H. (NASA77A48990)

NOTES ON ADOBE CONSTRUCTION FROM THE ENCYCLOPEDIA OF WORLD ART, Lumpkins, W.; McGraw-Hill Book Co., Inc.; 1972.

- NSF & ERDA WORKSHOP ON SOLAR ENERGY STORAGE SUBSYSTEMS FOR THE HEATING AND COOLING OF BUILDINGS; April 16-18, 1975; Univ. of Virginia, Charlottesville; Report of Working Group D.
- OPTIMUM STORAGE CAPACITY OF WALLS, Knabe, G.; Luft Kaeltech; Vol 7:68-74, No 2; April 1971; In German. (TAC: ST74 50209)
- OPTIMUM STORAGE OF HEAT WITH A SOLAR HOUSE, Speyer, E.; Cen Res Lab; American Machine and Foundry Co.; Stamford, CT; Solar Energy, Vol 3, No 4; Oct. 1959; pp. 24-48.
- PACKED BED THERMAL STORAGE MODELS FOR SOLAR AIR HEATING AND COOLING SYSTEMS, Hughes, P.J., Klein, S.A. and Close, D.J.; ASME Transactions, Series C-Journal of Heat Transfer, Vol 98:336-338; 9 refs.; May 1976; Contract No. E(11-1)-2588; A76-33532. (TAC: ST76 42027)
- PASSIVE SOLAR COLLECTOR WALL INCORPORATING PHASE CHANGE, Hauer, C.R., Nichols, L., Remillard, R.V., 2nd NPSC, p. 485.
- PERFORMANCE OF A SOLAR HEATING SYSTEM UTILIZING PHASE-CHANGE ENERGY STORAGE, Morrison, D.J., Abdel-Khalik, S.I.; Am. Section of the Intl. Solar Energy Society, Cape Canaveral, FL; 1976.
- PERIODIC HEAT FLOW-COMPOSITE WALLS OR ROOFS, Mackey, C.O. and Wright, L.T., Jr.; Heating, Piping and Air-Conditioning; ASHVE Journal Section; June, 1946.
- PERIODIC HEAT FLOW-HOMOGENEOUS WALLS OR ROOFS; Mackey, C.O. and Wright, L.T., Jr.; Transactions of the Amer. Soc. of Heating and Ventilating Engineers; 1944.
- PERIODIC HEAT FLOW THROUGH BUILDING COMPONENTS-HEAT EXCHANGE AT OUTSIDE SURFACE; CSIR RR:DR8; 4A0023; 1950; 72 pp.; TP. ASUSI.
- PERIODIC HEAT FLOW THROUGH FLAT ROOFS, Parmelee, G.V., Vild, D.J. and Erickson, M.L.; ASHVE Transactions, Vol 61; 1955; ASHVE Journal, Vol 27, No 7; 1955.
- PICTORIAL; Concrete Masonry/Energy Conservation, Vol 33, No 11; National Concrete Masonry Assn.; 6845 Elm St., McLean, VA 22101.

PROCEEDINGS OF A NATO SCIENCE COMMITTEE CONFERENCE ON THERMAL ENERGY STORAGE (TES); Energy; Oxford; Vol 2:53-101, No 1; March 1977. (TAC: ST77 23040)

PROCEEDINGS ON THE WORKSHOP ON SOLAR ENERGY STORAGE SUBSYSTEMS FOR THE HEATING AND COOLING OF BUILDINGS, Lilleleht, L.U., Beard, J.T., Iachetta, F.A.; NSF/RA/N-75-041; 191 pp.; April 18, 1975; Grant NSF AER-75-06713; Workshop held at Charlottesville, VA; April 16-18, 1975; sponsored by the Amer. Soc. of Heating, Refrig, and Air-Cond. (TAC: ST76 42046)

QUASI-STABLE HEAT TRANSFER PROCESSES IN SOLAR HOTHOUSE FOUNDATIONS, Rzaev, P.F., Kurbanova, R.B.; Lab. for the Utilization of Foundations; Solar and Wind Energy as Azssr; Appl Solar Energy; USSR-Engl. Transl.; Vol 2, No 1; 1977; pp. 39-40.

RESEARCH ON SOLAR ENERGY STORAGE SUBSYSTEMS UTILIZING THE LATENT HEAT OF PHASE CHANGE OF PARRAFIN HYDROCARBONS FOR THE HEATING AND COOLING OF BUILDINGS; Semiannual Report, Bailey, J.A., Mulligan, J.C., Liao, C.K. and Guceri, S.I., North Carolina State Univ., Dept. of Mech. and Aerospace Engineering; NTIS; 1975.

ROCK COLLECTOR AND STORAGE SYSTEM FOR GREENHOUSE AND RESIDENT HEATING, Akridge, James M., Engineering Experiment Sta., Ga. Inst. of Tech.

ROCK PILE THERMAL STORAGE HEATING AND COOLING SYSTEM, Chapman, H.L.; Commonwealth Scientific and Ind. Res Organ., Highett, Victoria, Australia; Intl. Solar Energy Society Conf.; March 2-6, 1970; Prepr. Pap. N 6/54; 7 pp., 4 refs. (TAC: ST74 42005)

THE ROLE OF BRICK MASONRY IN ENERGY CONSERVATION DESIGN; 1974; Aho, Arnold J.; AIA, Designing with Natural Energies: Sun, Air, Soil, Wind, Humidity, Temperature; BIA document.

SALT-GRADIENT SOLAR PONDS FOR SOLAR ENERGY UTILIZATION, Nielsen, C.E.; Ohio State Univ., Environ. Conserv., Vol 2, No 4; Winter 1975.

SEASONAL STORAGE OF ENERGY IN SOLAR HEATING SYSTEMS, Kumar, S.; Inter Technology Corp., Warrenton, VA; Amer Inst of Aeronautics and Astronautics, Thermophysics Conf; 11th; San Diego, CA; Paper 76-449; 8 pp., 6 refs. July 14-16, 1976; A76-37694. (TAC: ST76 42043)

- SELF-PUMPING BY MEANS OF POWER CYCLES, Wachtell, G.P., 2nd NPSC, p. 514.
- SELF-STORING SOLAR HEATER, Lanciault, J.A.; U.S. patent 3,823,703; July 16, 1974.
- SHALLOW SOLAR POND ENERGY CONVERSION SYSTEM, Dickinson, W.C.; Clark, Day, Mouters; ISESU, 8C0050; 1974; 16 pp.; TP ASUSI.
- SIGNIFICANCE OF SUN RADIATION AND THE HEAT STORAGE CAPACITY OF ENERGY CONSUMPTION OF HEATING INSTALLATIONS IN DOMESTIC BUILDINGS, Heindl, W.; Klima Kael Teing, Vol 4, No 1; Jan. 1976; In German.
- SIMULATION AND OPTIMIZATION OF SOLAR COLLECTION AND STORAGE FOR HOUSE HEATING, Buchberg, H. and Roulet, J.R.; Solar Energy, Vol 12; 1968; pp. 31-50.
- SINGLE-FAMILY HOUSING-ENERGY STUDY, ONE HOUSE-TWO CITIES-THREE WALLS; Research Report No. 19; BIA; August 1977.
- SIZING AND APPLICATION OF THERMAL STORAGE SYSTEMS, Cupinskas, E.L.; ASHRAE Journal, Vol 17, No 7; 1965.
- SIZING OF SOLAR ENERGY STORAGE SYSTEMS USING LOCAL WEATHER RECORDS, Moore, G.L.; Univ. of Mo., Columbia; ASME Pap N74-WA/HT-20; 5 pp., 2 refs; Nov., 1974. (TAC: ST75 42003)
- SOLAR BATTERY FOR PASSIVE HEATING, Moran, Edward; Popular Science Solar Energy Handbook, Times-Mirror Magazines, 112 pp., 1978, \$1.75.
- SOLAR BOOKLET; Zomeworks, Albuquerque, NM; no date.
- SOLAR COLLECTOR STORAGE PANEL, E<sup>3</sup> Education and Experience in Engineering, 2nd NPSC, p. 481.
- SOLAR ENERGY STORAGE, Gauss, A., Jr.; Ballistic Research Labs, Aberdeen Proving Ground, MD; 24 pp.; June 1976; BRL-1985, AD-A028 083/4WE; PC\$3.50/MF\$3.00. (TAC: ST76 42040)
- SOLAR ENERGY STORAGE, Telkes, Maria; ASHRAE Journal, Vol 16, No 9; 1974.

- SOLAR ENERGY STORAGE AND UTILIZATION, Yuan, S.W., Bollm, A.M.; George Washington Univ., Washington, DC; Advan. In Eng. Sci., Vol 3:123501246; In NASA, Langley Res. Center; N77-10305 01-31; N77-10341; Avail: NTIS. (TAC: ST77 23022)
- SOLAR ENERGY STORAGE IN LAYERS OF SANDY GRAVEL, Rabbimov, R.G., Umarov, G. Ya., Zakhidov, R.A.; Geliotekhnika (Applied Solar Energy) (Heliotechnology); Vol 7:57, No 5; 1971. (TAC: ST74 42010)
- SOLAR ENERGY STORAGE PRACTICAL APPLICATION, Jordan, R.C.; Amer. Artisan; Oct. 1960; pp. 53-56.
- SOLAR ENERGY STORAGE SUBSYSTEMS FOR HEATING AND COOLING; April 16-18, 1975; Proceedings, Avail. from ASHRAE; \$12.50.
- SOLAR ENERGY STORAGE USING SEPARATION AND MIXING OF AMMONIA AND WATER AND ENERGY STORAGE BY SEPARATION AND MIXING USING AN AMMONIA AND WATER SYSTEM; Schenewerk, W.E. and Blum, H.A.; ISES Conference; 1974; two drawings.
- SOLAR ENERGY STORAGE WITHIN THE ABSORPTION CYCLE, Baughn, J.; Univ. of Calif., Davis; Jackman, A.; ASME Paper N74-WA/HT-18; 8 pp.; 15 refs; Nov. 1974. (TAC: ST75 42201)
- SOLAR ENERGY STORAGE SYSTEMS, Hammitt, A.G.; Publ by West Period Co., North Hollywood, CA, Council of Eng. and Sci, Proc Ser, Vol 1:159-164; 1975; Greater Los Angeles Area Energy Symp; Proc; April 3, 1975. (TAC: ST76 42041)
- SOLAR ENERGY SUBSYSTEMS EMPLOYING ISOTHERMAL HEAT SINK MATERIALS. SEMI-ANNUAL PROGRESS REPORT; Sept. 18, 1974-June 31, 1975; Lane, G.A., Best, J.S., Clarke, E.C., Drake, S.S., Glew, D.N., Quigley, S.W., Rossow, H.E.; Dow Chemical Co., Midland, MI; 25 pp.; July 1975; TID-26901. (TAC: ST76 42007)
- SOLAR HEATING HOUSES BY VERTICAL SOUTH WALL STORAGE PANELS, Dietz, A.G.H. and Czapek, E.L.; ASHRAE Trans: V56; pp. 121-140; 1950. JA ASUSI.
- SOLAR HEATING OF HOUSES BY VERTICAL SOUTH WALL STORAGE PANELS, Dietz, A.G.H. and Czapek, E.L.; Heat., Piping, Air-Cond., Vol 22, No 3; March 1950; pp. 118-125.

SOLAR-HEAT STORAGE, Telkes, M.; ASME, New York; 1964.

SOLAR HOUSE HEATING, A PROBLEM OF HEAT STORAGE, Telkes, M.; Heating and Ventilating, Vol 44; 1947; p. 68.

SOLAR POND; Patent application; Miller, C.B. and Stephens, J.B.; NASA, Pasadena Office, CA; N75-27560; NASA-Case-NOP-13581-1; US-Patent-Application-SN-590975; to NASA, JPL, Filed June 1975; 18 pp.; Contract NAS7-100. (TAC: ST75 46008)

SOLAR PONDS EXTENDED, Clark, A.F.; Lawrence Livermore Laboratory, Univ. of Calif., Livermore, CA; July 27, 1973. (TAC: ST75 46011)

SOLAR PONDS FOR RESIDNETIAL HEATING; Final Report, Zangrando, F., Bryant, H.C.; Dept. of Physics and Astronomy, Univ. of New Mexico; Aug. 1976; Grant No. ERB-161. (TAC: ST77 26002)

SOLAR PONDS FOR SPACE HEATING, Rabl, A., Nielsen, C.E.; Sol Energy, Vol 17, No 1; pp. 1-12; 25 refs; April 1975. (TAC: ST75 46007)

SOL SHOT 1; Wallsheet describing "Solar Chimney-Collector and Heat Storage System"; Baer, Steve; Cookbook fund-Lama Foundation; Corrales, NM; 1973.

SOME PERFORMANCE CHARACTERISTICS OF THE CNRS SOLAR HOUSE COLLECTORS, Trombe, F., et. al.; Los Alamos Scientific Lab., Los Alamos, NM; n.d.

SOME PHYSICAL-CHEMICAL ASPECTS OF HEAT STORAGE, Goldstein, M.; UN: Rome; E35-S7.

STORAGE OF SOLAR HEATING/COOLING, Telkes, M.; Univ. of Delaware, Newark; ASRAE Trans., Vol 80, Pt 2; 1974; Pap MO-74-1; pp. 382-392; 25 refs; 74. (TAC: ST75 42206)

STORING SOLAR HEAT IN CHEMICALS: A REPORT ON THE DOVER HOUSE, Telkes, M. and Raymond, E.; Heating and Ventilating; Nov. 1949; pp. 80-85.

STORING SUNLIGHT UNDERGROUND, THE SOLATERRE SYSTEM, Davison, R.R., Harris, W.B. and Martin, J.H.; Chem. Technology, Vol 5, No 12; Dec. 1975.

STORING THE SUN'S ENERGY; Science, Vol 89:11; April 14, 1939;  
EDB-77:041451. (TAC: ST77 23041)

STUDY OF SOLAR RADIATION AS A CONTRIBUTION TO DOMESTIC HEATING,  
Dumortier, Jean; Flamme et Thermique, Vol 10:11-39, No  
108; Sept. 1957; and Vol 10:13-36, No 109; Oct. 1957.  
(TAC: ST74 50003)

STUDY ON THE HEATING OF HOUSES BY THE UTILIZATION OF SOLAR ENERGY,  
Trombe, F.; Chauff. Vent., Condit. Vol 43; 1967; p. 47.

THE SUNEARTH HOME, Shippee, P., 2nd NPSC, p. 91.

SUSPENSION MEDIA FOR HEAT STORAGE MATERIALS, Chahroudi, Day;  
Zomeworks Corp., Albuquerque, NM.

TABLES OF U-VALUES FOR CONCRETE MASONRY WALLS; National Concrete  
Masonry Assn., McLean, Va., 1975; NCMA-TEK #67.

TECHNICAL AND ECONOMIC FEASIBILITY OF THERMAL STORAGE IN A SOLAR  
HEATING SYSTEM, Shelpuk, B., Joy, P., Jr.; Louisiana State  
Univ., Baton Rouge; ERDA Div. of Solar Energy, Radio Corp.  
of America, Camden, NJ; July 1976; Proceedings of the  
Second Southeastern Conf on Appl of Solar Energy.

TECHNICAL AND ECONOMIC FEASIBILITY OF THERMAL STORAGE SYSTEMS.  
INTERIM REPORT; May 15, 1975-Sept. 15, 1975; Joy, P.; RCA  
Advance Technology Labs., Camden, NJ; 45 pp.; Oct. 1,  
1975; TID-27062. (TAC: ST77 23007)

TEMPERATURE FIELDS OF SOLIDS HEATED BY SOLAR CONCENTRATIONS, Cobble,  
M.H.; Solar Energy, Vol 7, No 3; 1963.

TEMPERATURE RESPONSE OF A SUNLIT FLOOR AND ITS SURROUNDING SOIL,  
Wessling, Francis; p. 73. PSHCC.

THEORETICAL PERFORMANCE OF A NATURAL SOLAR ENERGY COLLECTION SYSTEM  
FOR HOUSE HEATING, Ohanessian, P, Chart, W.W.S.; 40/15; Dept.  
of Mech. Eng., Univ. of Melbourne, Parkville, Victoria 3052.

THE THERMAL ADMITTANCE OF LAYERED WALLS, Davies, M.G.; Building  
Science, Vol 8; London, England; 1973; pp. 207-220.

THERMAL CHARACTERISTICS OF ADOBE, Wessling, Dr. Francis C.; Univ.  
of N.M., Albuquerque; p. 63. 3rd Annual Life-Technics Conf.-  
avail.-NMSEA, Santa Fe, N.M.

THERMAL COMFORT IN HOUSING WITH CONCRETE MASONRY UNITS; National Concrete Masonry McLean, Va., 1971; NCMA - TEK #26.

THERMAL CONDUCTIVITY OF SOILS FOR DESIGN OF HEAT PUMP INSTALLATIONS, Yamauchi, Thomas and Smith, G.S.; ASHVE Transactions, Vol 56; 1950; ASHVE Journal, Vol 22, No 7; 1950.

THERMAL DESIGN OF WARM WATER CONCRETE FLOOR PANELS-A DESIGN MANUAL; ASHVE Transactions, Vol 63; 1957.

THERMAL ENERGY SOURCE UNIT FOR AIR CONDITIONING SYSTEMS USING PHASE CHANGE MATERIAL Dudley, James Co.; Report No. NSF/RANN/SE/G127976/TR72, 8; Nat Ctr for Ener Mgmt and Power; Univ. of Pennsylvania; Aug. 1972.

THERMAL ENERGY STORAGE, Telkes, M.; Inst. of Electrical and Electrical and Electronics Eng., Inc.; New York, NY; pp. 111-115; 14 refs; 1975; in Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, DE; Aug. 18-22, 1975; Record; A75-45920 23-44; A75-45932. (TAC: ST76 42016)

THERMAL ENERGY STORAGE APPLIED TO RESIDENTIAL HEATING SYSTEMS, Gresko, T.M. and Glenn, D.R.; Gen. Elec. Co., Phila., PA; Vol 1:591-597; 1976; in Intersociety Energy Conv Eng Conf, 11th, State Line, NV; Sept. 12-17, 1976; Proceedings, New York, Amer Insti of Chem Eng; A77-12662 02-44; A77-12729. (TAC: ST77 23004)

THERMAL ENERGY STORAGE FOR HEATING AND AIR CONDITIONING, Lorsch, H.G., Kauffman, K.W., Denton, J.C.; Sem on Future Ener Production-Heat and Mass Transfer Prob.; Dubrovnik, Yugoslavia; Vol 1:69-81, 12 refs; Aug. 25-30, 1975; Publ by Hemisphere Pub. Corp., Washington, DC; 1976. (TAC: ST77 23032)

THERMAL ENERGY STORAGE FOR SOLAR HEATING AND OFF-PEAK AIR CONDITIONING, Lorsch, H.G.; Franklin Inst Res Lab; Phila., PA; Kauffman, K.W., Denton, J.C.; Energy Conversion Vol 15:1-8, N1-2, 12 refs; 1975. (TAC: ST76 42008)

THERMAL ENERGY STORAGE IN ADOBE AND IN STONE STRUCTURES, Wessling, F.C., Jr.; Univ. of N.M., Albuquerque, NM; ASME, Pap N. 74-WA/HT-15, for Meeting, Nov. 17-22, 1974; 7 pp.

- THERMAL ENERGY STORAGE FOR SOLAR HEATING, Lorsch, H.G.; Franklin Inst. Research Labs; ASHRAE Journal, Vol 17, No 11; Nov. 1975; pp. 47-52.
- THERMAL ENERGY STORAGE USING SODIUM SULFATE DECAHYDRATE AND WATER, Biswas, D.P.; Calif., Univ., Berkeley, CA; Intn. Solar Energy Cong and Expo; Los Angeles; July 28-Aug. 1, 1975; Solar Energy, Vol 19:99-100, No 1; 1977; ERDA-supported research; A77-25905. (TAC: ST77 23035)
- THERMAL INERTIA IN ARCHITECTURAL WALLS, Arumi, Francisco N.; 1976; Div. of Buildings and Comm Sys Ener Research and Develop Admin and Nat Concrete Masonry Assn.
- THERMAL INERTIA IN ARCHITECTURAL WALLS, Arumi, F.N., for ERDA and Nat Concrete Masonry Assn.; 1977; NCMA, P.O. Box 135, McLean, VA 22101.
- THERMAL INERTIA-THE NEGLECTED CONCEPT, Catani, M.J. and Goodwin, S.E.; The Construction Specifier, May 1977.
- THERMAL INSULATION FOR BUILDINGS, Hohmann, R.; Elektrowaerme Int, Vol 34:285-290; NA6; Nov. 1976; In German. (TAC: ST77 32073)
- THERMAL INSULATION OF CONCRETE MASONRY WALLS; Nat Concrete Masonry Assn; McLean, Va., 1972; NCMA-TEK #38.
- THERMAL PERFORMANCE OF BRICK MASONRY WALLS IN ENERGY CONSERVATION, Yorkdale, A.H.; Brick Insti of Amer; Patterson, D.C.; Constr Specifier, Vol 28:39-42, No 12; Dec. 1975. (TAC: ST76 51023)
- THERMAL PERFORMANCE OF CLAY MASONRY WALLS, Monk, C.B., Jr.; Structural Clay Products Research Found, Geneva, IL.
- THERMAL PROPERTIES OF SELECTED MASONRY UNIT CONCRETES, Harmathy, T.Z. and Allen, L.W.; ACI Journal; February 1973.
- THE THERMAL RESPONSE FACTOR METHOD AND BUILDING ELEMENTS CONTAINING AIR CAVITIES, Pedersen, C.O. and Houen, E.D.; U. of Ill., Urbana, from Symposium, Paris, FR; June 1974.
- THERMAL RESPONSE FACTORS FOR MULTI-LAYER STRUCTURES OF VARIOUS HEAT CONDUCTION SYSTEMS, Kusuda, T.; ASHRAE, No. 2108, ASHRAE Semi-annual Meeting, Chicago, IL; Jan. 27-30, 1969.

THERMAL STORAGE IN BUILDINGS, Heap, R.D.; Electric Coun Res Cent Capenhurst, Chester, England; Build Int (Eng. Ed.), Vol 8, No 1; Jan.-Feb. 1975; pp. 1-16; 19 refs. (TAC: ST75 502160

THERMAL STORAGE WALLS, CONVECTIVE LOOPS, & ATTACHED SUNSPACES: A BRIEF INTRODUCTION, Anderson, Bruce; 2nd NPSC, p. 16.

THERMAL TRANSMISSION CORRECTIONS FOR DYNAMIC CONDITIONS-M FACTOR; BIA Technical Notes on Brick Construction; Mar.-Apr. 1977; Brick Institute of America, McLean, VA 22101.

TROMBE WALL WITH PHASE CHANGE STORAGE MATERIAL, Telkes, M., 2nd NPSC, p. 283.

TWO COMPONENT THERMAL ENERGY STORAGE MATERIAL; Final Report, Mehalick, E.M. and Tweedie, A.T.; G.E. Co., Space Div., Philadelphia, PA; Nov. 1975; NTIS.

TWO RECENTLY COMPLETED TROMBE WALL RETROFITS, Wilson, T.C., 2nd NPSC, p. 76.

UNDERGROUND ARCHITECTURE, Wells, Malcolm; 2nd NPSC, p. 28.

UNDERGROUND STORAGE OF HEAT IN SOLAR HEATING SYSTEMS, Shelton, Jay; Williams College, Williamstown, MA; Solar Energy 254 (1-7); 1974.

USE OF BUILDING STRUCTURAL COMPONENTS FOR THERMAL STORAGE, Barkman, H.G.; in, Solar Energy Storage Subsystems for the Heating and Cooling of Buildings; Lilleleht, L.U., Beard, J.T., Iachetta, F.A., eds.; ASHRAE, New York, 1975.

THE USE OF EARTH COVERED BUILDING ALTERNATIVES IN ENERGY CONSERVATION; Proceedings and Notes of Conference, Ft. Worth, TX; N.S.F., 1975.

USE OF SOLAR ENERGY FOR HEATING PURPOSES, HEAT STORAGE, Mathur, K.N.; UN: Rome; E 35, Gr-S17.

UTILIZATION OF SOLAR ENERGY, Michel, J.; L'Architecture D'Aujourd'hui, Vol 167; 1973.

VERTICAL SOLAR LOUVERS: A SYSTEM FOR TEMPERING AND STORING SOLAR ENERGY, Bier, J., 2nd NPSC, p. 209.

WALLS TO SAVE ENERGY; BIA, Brick Inst of Amer; McLean, VA 22101.

WHAT'S A "U" VALUE?, McGrew, Jay L.; Applied Science and Engineering,  
Denver, CO; July 1977.

X. INSULATION AND SHADING

- ALLISOL 2 - INSULATING SECTIONS FOR WINDOWS, DOORS, FACINGS, Weber P., Alum Menziken, Switz. Schweiz Alum Rundsch, N4, pp 78-79  
3 refs, Apr 1975. (TAC: ST75 50223).
- ANALYSIS OF DOUBLE-DRAPED FENESTRATION CONFIGURATIONS, Pennington, C.W., Morrison, C.A., Ingley, H.A., ASHRAE Transactions, Vol 82, Pt 1, 1976.
- ANALYSIS AND RATING OF DRAPERY MATERIALS USED FOR INDOOR SHADING, Keyes, M.W., ASHRAE Transactions, Vol 73, Pt 1, 1967, Paper 2040, 15 pp, also ASHRAE Journal, Vol 9, pp 59-66, N 10, Oct 1967. (TAC: ST74 50155).
- ANALYZING SUNHOOD CONFIGURATIONS FOR SUN CONTROL, Meckler, M., Air Cond, Heating & Vent., Vol 64, pp 41-44, N 2, Feb 1967.
- AUTOMATIC GLASSHOUSE SHADING, Canham, A.E., Solar Energy, Vol 8, p 9, N1, 1964 (TAC: ST74 47004).
- BEADWALL SYSTEM WINDOW AND GREENHOUSE PLANS, Zomeworks, P.O. Box 712, Albuquerque, NM 87103, \$15.00 (TAC: ST74 47022).
- BUILDINGS AS ORGANISMS, Chahroudi, D., 2nd NPSC, p. 276.
- CONTROL FOR SOLAR HEAT GAIN THROUGH BUILDING FENESTRATION, Pennington C.W., ASME 69-Wa/Sol ASME Winter Meeting, 1969.
- DRAPERY FABRICS & THEIR EFFECTIVENESS IN SOLAR HEAT CONTROL, Yellott, John I., 4D10039 1965 12P TP ASUSI.
- ECONOMIC EFFICIENCY OF SUN-SHIELDING DEVICES IN INDUSTRIAL CONSTRUCTION, Marakayev, R.Y., Geliotekhnika (Applied Solar Energy) (Heliotechnology) V 8:84, N 3, 1972. (TAC: ST74 10520).
- EFFECT OF LOUVERED SUN SCREENS UPON FENESTRATION HEAT LOSS, Yellott, John I., ASHRAE Transactions, Vol 78, Pt 1, 1972.
- EFFECT OF ROOF DESIGN ON INDOOR CLIMATE IN HOT ARID ZONES, Givoni, B., Tech, Isr Inst of Technology, Hoffman, M.E., Build Int (Eng. Ed) V 6:525-540, N 5, Sept-Oct 1973, 15 refs. (TAC: ST74 50404).
- ENERGY CONSERVATION. EXTERIOR SHADING OF FENESTRATION TECHNIQUES, Yellott, J.I., Ewing, W.B., Ariz State Univ, Tempe, AZ, ASHRAE Journal, Vol 18, pp 23-30, N 7, July 1976. (TAC: ST76 50112).

ENERGY CONSERVATION THROUGH THE USE OF EXTERIOR SHADING OF FENESTRATION, Ewing, W.B., Yellott, J.I., Sunscreen Co, Fajardo, Puerto Rico, ASHRAE Transactions, Vol 82, pp 703-733, pt 1, 1976, Proceeds of the ASHRAE Semiannual Meeting, Dallas, TX, Feb 1-5, 1976. (TAC: ST77 33031).

EXPERIMENTAL ANALYSIS OF SOLAR HEAT GAIN THROUGH INSULATION WITH GLASS INDOOR SHADING, Pennington, C.W., Smith, W.A., Farber, E. Reed, J.C., ASHRAE Transactions, Vol 70, 1964, ASHRAE Journal, Vol 6, No 2, 1964.

AN EXPERIMENTAL DETERMINATION OF SHADING COEFFICIENTS FOR SELECTED INSULATING REFLECTIVE GLASSES AND DRAPERIES, Morrison, C.A., Wheeler, J.M., Jr., Farber, Erich, ASHRAE Transactions, Vol 82, Pt 1, 1976.

GLASS TYPES AND SOLAR SHADING, Jaros, A.L., Jr., Air Conditioning Heating and Ventilating, Vol 59, No 4, Apr, 1962, pp 52-68.

GRAPHIC METHOD OF ANALYSIS OF EXTERIOR SOLAR SHADING, Jordan, C.H., ASHRAE Journal, Vol 9, pp 36-37, N 3, Mar 1967. (TAC: ST74 50108).

HEAT GAIN THROUGH WINDOWS SHADED BY CANVAS AWNINGS, Ozisik, Mecati, Schutrum, L, REPR:H, PLAIR: 5-58 4D10019 1958 P159-66 TP. ASUSI.

HOW DRAPES AFFECT HEAT-GAIN AS TESTED WITH REGULAR AND HEAT-ABSORBING GLASS, Ozisik, N., Schutrum, L.F., ASHRAE Journal, Vol 2, No 6, 1960.

HOW LOUVERED SUN SCREENS CUT COOLING, HEATING LOADS, Pennington, C.W., Heating, Piping & Air Cond, Vol 40, pp 87-90, N 12, Dec 1968. (TAC: ST74 50244).

HOW TO CHOSE WINDOW DRAPERY MATERIALS FOR INDOOR SHADING, Keyes, M.W., ASHRAE Journal, Vol 9, No 10, 1967.

INTERNATIONAL ASPECTS OF AIR CONDITIONING WITH MOVABLE INSULATION, Hay, H.R., and Yelliott, J.I., Solar Energy, Vol 12, 1969, pp 165-77, N 4, p 427.

INVESTIGATION OF ARCHITECTURAL ADAPTATIONS OF THERMAL PONDS AND MOVABLE INSULATION, Haggard, K., Calif Polytech St Univ, San Luis Obispo, 1976, from Passive Solar Heating and Cooling, Keller, M.H., Ed.

METHOD FOR THE DESIGN OF FIXED EXTERNAL SUN-SHADES, Shaviv, E.,  
Tech Isr Inst of Technol, Haifa, Israel, Build Int, Engl  
Ed, Vol 8, pp 121-150, 7 refs, N 2, Mar-Apr 1975. (TAC:  
ST76 50025).

MOVABLE INSULATION, Baer, Steven, 1976 PSHCC.

MOVABLE INSULATION: NEW DEVELOPMENTS AT ZOMEWORKS, Hymer, R.,  
2nd NPSC, p. 310.

NATURAL AIR-CONDITIONING WITH ROOF PONDS AND MOVABLE INSULATION,  
Hay, Harold, Yellott, John I., ASHRAE Transactions, Vol  
75, Pt 1, 1969.

NEW BUILDING MATERIALS AND COMPONENTS FOR PASSIVE HEATING OF BUILD-  
INGS, Johnson, Timothy, PSHCC, p. 288.

NEW FOR YOUR WINDOWS: ADD-ON SUN CONTROL, Jones, Thomas H.,  
Popular Science, Sept 1974, p. 125.

NUMERICAL MODEL FOR ESTIMATING THE MODIFICATION OF HEAT BUDGET  
INTRODUCED BY HEDGES, Chiapale, J.P., INRA Stn de Bioclimatol  
d'Avignon, Montfavet, France, Transfer Processes in the Plant  
Environ, Dubrovnik, Yugoslavia, Pap 31, pp. 457-466, 9 refs,  
Aug 26-30, 1974, Publ by Scrinta Book Co., Div of Hemisphere  
Publ Corp, Adv in Therman Eng 3, Washington, D.C., 1975, Semin  
on Heat and Mass Transfer in the Environ of Veg: Heat and  
Mass Transfer in the Biosphere, Pt 1. (TAC: ST76 20001).

PERIODIC HEAT FLOW-COMPOSITE WALLS OR ROOFS, Mackey, C.O., Wright,  
L.T. Jr., REPR: ASHRAE TR: 6-46 4DD0001 1946 P283-96  
TP ASUSI.

PERIODIC HEAT FLOW THROUGH BUILDING COMPONENTS...UNDER WINTER CON-  
DITIONS, Roux, A.J.A., CSIR RR:DR7 4DD6 1950 30P TP ASUSI.

PROPERTIES AND PERFORMANCE OF SUN-SHIELDING GLASSES, Klein, W.,  
Jenaer Glaswerk Shott & Gen, Mainz, Germany. Glass, V 53:91-94,  
N 3, Mar 1976 (TAC: ST76 50084).

REDUCING HEAT GAIN THROUGH ROOF, Carroll, A.W., Air Conditioning,  
Heating, & Vent, Vol 53, pp 61-64, N 7, J1 1956. (TAC: ST74  
50010).

ROOFS IN THE WARM HUMID TROPICS, Koenigsberger, O., Lynn, R.,  
Architectural Association, London W.1., England, 56 pp, \$5.50.

SELF-INFLATING MOVABLE INSULATION SYSTEM, Shore, R., 2nd NPSC, p. 305.

SHADING COEFFICIENTS AND SUN CONTROL CAPABILITY OF SINGLE GLAZING,  
Yellott, John I., ASHRAE Transactions, Vol 72, Pt 1, 1966.

SHADING COEFFICIENTS FOR GLASS BLOCK PANELS, Smith, W.A., Pennington,  
C.W., ASHRAE Journal, Vol 6, No 12, 1964.

THE SHADING OF SUNLIT GLASS, Pennington, C.W., ASHRAE Journal, Vol  
8, No 4, 1966.

SHADOW AREA EQUATIONS FOR WINDOW OVERHANGS AND SIDE FINS AND THEIR  
APPLICATION IN COMPUTER CALCULATION, Sun T.Y., ASHRAE Transac-  
tions, Vol 74:1.1-9, Pt 1, Paper 2049, 1968. (TAC: ST74 50228).

SKYLIDS, Baer, S.. Zomeworks Corp, Albuquerque, NM.

SOLAR BUILDINGS IN TEMPERATE AND TROPICAL CLIMATES, Spreyer, E.,  
American Machine and Foundry Co., Stanford, CT, from Proc-  
ceedings of the United Nations Conference on New Sources of  
Energy, Vol 5, UN, NY, 1964.

SOLAR CONTROL PERFORMANCE OF OPEN AND TRANSLUCENT LOUVER SYSTEMS,  
Owens, P.G.T., Pilkington Bros, St. Helens, Lancs, Engl,  
ASHRAE Transactions, Vol 80, Part 2, pp 324-341, 13 refs,  
Pap 2327, 1974. (TAC: ST75 50211).

SOLAR CONTROL AND SHADING DEVICES, Olgay, Aladar and Victor,  
Princeton Univ Press, Princeton, NJ, 1957, 1976.

SOLAR HEAT GAINS THROUGH SLAT-TYPE BETWEEN-GLASS SHADING DEVICES,  
Osisik, N., Schutrum, L.F., ASHRAE, Cleveland, OH, 1960.

SOLAR SLIDE SET, Zomeworks, Albuquerque, NM, no date, \$12.00.

SUMMER HEAT CONTROL FOR SMALL HOMES, Cramer, R.D., Neubauer, L.W.,  
REPR:ASAE TRANS:v2:1 4CF002 1958 p102,3,5, TP ASUSI.

SUNERGY LOUVER DRAPE - A UNIQUE PASSIVE SOLAR HEAT COLLECTOR &  
REFLECTOR, Rice, Fred H., Fred Rice Prod, Inc., Van Nuys, CA,  
Sharing the Sun; Solar Technology in the Seventies, Jt Conf  
of the Int Sol Energy Soc, Am Sect and Sol Energy Soc of Can  
Soc, Am Sect, Cape Canaveral, FL, 1976, Vol 4, pp 27-29.

SUN LOUVERS CUT 20 TONS OFF A-C LOAD, Molnar, J., Heating, Piping,  
& Air Conditioning, Vol 36, pp 109-112, N 2, Feb, 1964.  
(TAC: ST74 50214)

- THEORETICAL EFFECTIVE REFLECTIVITIES, ABSORPTIVITIES, AND TRANSMISSIVITIES OF DRAPERIES AS FUNCTION OF GEOMETRIC CONFIGURATION, Farber, E.A., Solar Energy, Vol 7, pp 176-179, N 4, Oct-Dec, 1963. (TAC: ST74 50205).
- THERMAL EVALUATION OF A HOUSE USING A MOVABLE-INSULATION HEATING AND COOLING SYSTEM, Niles, P.W.B., Calif Poly State Univ, San Louis Obispo, CA, Solar Energy, Vol 18, pp 413-419, N 5, 1976, Interntl Solar Energy Soc, Interntl Solar Energy Congress and Expo, Los Angeles, Calif, Los Angeles, CA, July 28-Aug 1, 1975, U.S. Dept of Housing & Urban Developmt, HUD-H-22026R, A77-12407. (TAC: ST77 33015).
- THERMAL RESULTS OF CERTAIN INNOVATIVE INTEGRATED SOLAR HEATING SYSTEMS AS OF MARCH 1978, Saunders, Norman B., 2nd NPSC, p. 62.
- THERMAL-ROLL CORP (HOUSTON TX) IS MANUFACTURING 'THERMA-ROLLS' A VERTICAL ROLLING WINDOW SHUTTER, 389056 Solar Ed 77/09/ p. 8.
- THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, Buckley S., MIT, Cambridge, Dept of Mech Eng, NSF/RANN/SE/GI-43897/PR/75/2, PB-246 364/4WE. (TAC: ST75 50037).
- THERMOPHYSICAL ANALYSIS OF A TRANSPARENT WALL WITH REGULATED RESISTANCE TO HEAT TRANSFER, Anufriev, L.N., Tsniiepsel'stroi, Ministry of Rural Construction, App Solar Energy, USSR, Eng Translation, Vol 10, No 3-4, 1974, pp 96-102.
- VARIABLE SHADING FOR GREENHOUSES, Spencer, D.L., Univ of Iowa, Iowa City, Daunicht, H.J., Smith, T.F., ASME Pap N74-WA/Sol-12, 11 pp, 1 ref, Nov, 1974. (TAC: ST75 47000).
- VARIABLE TRANSMISSION SOLAR MEMBRANE, Chahroudi, D., 2nd NPSC, p. 343.
- WINDOW AS AN ENERGY FACTOR, INSULATING SHUTTERS: FUNCTION, CONSTRUCTION, ECONOMY, Hagman, F., Svensk byggtijanst, Stockholm, 1975, in Swedish.
- WINDOW COVERINGS, Melzer, B., Starr, G., 2nd NPSC, p. 317.
- THE WINDOW QUILT INSULATING SHADE, Lowell, T., Mross, M., Schnebly, J., 2nd NPSC, p. 314.
- WINDOW SYSTEMS AND CLIMATE CONTROL PERFORMANCE, Am Inst Phys Conf Proc, No 25, 1975, pp. 255-285.

## XI. HYBRIDS

Where a Device (usually mechanical)  
is Used to Assist the Passive Design

APPLICATION OF THERMIC DIODE SOLAR PANELS, Buckley, S., MIT, Cambridge, MA, UAH Press, Huntsville, AL, pp. 249-265, 11 refs, 1975, In: Application of Solar Energy; Proceedings of the First Southeastern Conf, Huntsville, AL, Mar 24-26, 1975, A76-31376 14-44, A76-31392, Research supported by the Cabot Solar Energy Fund. (TAC: ST76 40063).

COOLING WITH THERMAL DIODE PANELS, Buckley, S., Use of Solar Energy for the Cooling of Buildings, De Winter, F., Ed, Atlas Corp, Santa Clara, CA, July, 1976.

AN ENERGY EFFICIENT OFFICE BUILDING FOR THE STATE OF CALIFORNIA, Corson, Bruce, A., 2nd NPSC p. 233.

EVALUATION OF ENERGY FLOW CONTROL TECHNIQUES FOR PASSIVE HEATING AND COOLING SYSTEMS, Rensselaer Polytechnic Institute Center for Architectural Research, Rensselaer, N.Y.

GREEN MOUNTAIN HOMES HYBRID SYSTEMS, Converse, Alvin, O., Kachadorian, J., 2nd NPSC, p. 261.

THE HEAT PUMP, Morgen, R.A., Solar Energy Research, pp. 69-70.

THE HULL RESIDENCE: A PASSIVE SOLAR HYBRID SYSTEM, Frerking, M., 2nd NPSC, pp. 117.

A HYBRID PASSIVE/ACTIVE SOLAR HOUSE: FIRST YEAR PERFORMANCE OF THE HUNN RESIDENCE, Hunn, B.D., 2nd NPSC, Vol. 1, pp. 247-251.

A HYBRID SOLAR SYSTEM IN LOS ALAMOS, NEW MEXICO, Zwart, G., 2nd NPSC, p. 128.

KNOWING AND LOVING, AND NEVER KNOWING: TWO HOUSES, Scully, Dan; 2nd NPSC, p. 47.

THE LINDBERG RESIDENCE: A DOE FUNDED HYBRID SOLAR HOUSE, Pfister, Peter, J., 2nd NPSC, pp. 122-127.

MARKLE/VERMONT HYBRID SOLAR RESIDENCE, Klapper, Shelton, 2nd NPSC, pp. 252.

PASSIVE SOLAR HEATING AND COOLING: DEPARTMENT OF JUSTICE OFFICE BUILDING, Dubin, f., 2nd NPSC, pp. 240.

PASSIVE SOLAR RESIDENCE FOR THE FARM OF TODAY AND TOMORROW, Crites, Ray, D., Hull, J.R., 2nd NPSC, pp. 266.

PERFORMANCE CHARACTERISTICS OF THERMIC DIODE SOLAR PANELS, MIT,  
Dept of Agriculture. Cambridge, Mass.

THE PROPER USE OF THERMAL STORAGES FOR A SOLAR ASSISTED HEAT PUMP  
HEATING SYSTEM, Abbaspour, M., Glicksman, L.R., MIT, Cambridge,  
MA, ASME Paper, 76-WA/HT-76, 10 pp, 1976, Am Soc of Mech Engrs,  
Winter Annual Mtg, NY, NY, Dec 5-10, 1976, A77-26492.  
(TAC: ST77 23036).

RECYCLING ENERGY BY BUILDING HEAT EXCHANGE SYSTEMS, Johnson, C.A.),  
Amer Soc of Automotive Engrs, Chicago, IL, 1976, EDB-77:061574.  
(TAC: ST77 30134) Pap ASAE, Pap 76-4035, 24 pp, 7 refs, for  
Annu Meet, Univ of Nebraska, Lincoln, NE, June 27-30, 1976  
(TAC: ST77 32013).

SOLAR ASSISTED HEAT PUMPS - A POSSIBLE WAVE OF THE FUTURE, Smetana,  
F.O., North Carolina Sci and Technology Research Ctr, Research  
Triangle Park, NASA-CR-2771, NASI-14208; Washington, N77-14584  
Avail:NTIS HC A02/MF A01. (TAC: ST77 24008).

SOLAR ATRIUM: A HYBRID SOLAR HEATING AND COOLING SYSTEM, Larson,  
D.C., Ueland, M., 2nd NPSC, pp. 256.

SOLAR ENERGY SUPPLEMENTED RURAL-HOME HEAT PUMP, Mowry, G.R., Solar  
Energy, Vol 8, No 1, 1964.

SOLAR HEAT EXCHANGERS, Duffie, J.A., Lof, G.O.G., and Salam, E.M.A.,  
Chem Eng Progr, Vol 56, No 7, July, 1960, pp. 63.

SOLAR HEATING UTILIZING A PARAFFIN PHASE CHANGE MATERIAL, Askew,  
Gregory, L., 2nd NPSC, pp. 509.

SOLAR SPACE, HEAT AND DOMESTIC HOT WATER BY A SYSTEM OPERATING BOTH  
ACTIVELY AND PASSIVELY, Frantz, Margaret, McClintock, M., 2nd  
NPSC, pp. 505.

STORAGE ASPECTS OF THERMIC DIODE SOLAR PANELS, Buckley, S., MIT,  
ASHRAE, NY, 1975.

THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, Buck-  
ley, S., MIT, Cambridge, MA, NSF/RANN/SE-GI-43897/FR/76/3,  
NSF/RA-760076, RP-253 345/3WE, PC \$4.50, MF \$2.25. (TAC: ST  
76 50077).

THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, Buck-  
ley, S., MIT Dept of Mech Engr, NTIS, 2 Apr, 1976.

THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, SEMI-ANNUAL PROGRESS REPORT, Jan 1-June 30, 1975, Buckley, S., MIT, Dept of Mech Engr, Aug. 25, 1975, NTIS, \$4.00

THERMIC DIODE SOLAR PANELS: A BRIEF SUMMARY, Buckley, Shawn, MIT, Cambridge, MA, Sharing the Sun; Sol Technol in the Seventies, Jt Conf of the Int Sol Energy Soc Am Sect and Sol Energy Soc of Can. Inc, Winnipeg, Manit, Aug 15-20, 1976, Vol 2, pp. 1-23.

THERMIC DIODE SOLAR PANELS: PASSIVE AND MODULAR, Buckley, S., MIT, 1976 form Passive Solar Heating and Cooling, Keller, M.H., Ed. Available from NTIS.

THE THIRD OVERLAY, Keniston, Stanley, Quigley, R.W., 2nd NPSC p. 241.

WHITE MOUNTAIN SCHOOL LIVING CENTER, LITTLETON, NEW HAMPSHIRE, Banwell, White & Arnold, Inc., 2nd NPSC, p. 173.

XII. THERMOSYPHONIC HYDRONICS

THE CLIMAX-CUSP SOLAR WATER HEATER, Davis, W. Douglas, 2nd NPSC, p. 647.

CORROSION INHIBITORS FOR SOLAR HEATING AND COOLING SYSTEMS, Humphries, T.S., DeRamus, G.E., Jr., NASA, Marshall, NASA TN D-8409, 20 pp., Feb, 1977, \$3.50. (TAC: ST77 20002).

DESIGN CONSIDERATIONS OF FACTORY-MADE SOLAR WATER HEATERS, Yissar, Louis F., Conf on Solar Energy: The Scientific Basis, Univ of Arizona, Tucson, AZ, 1955.

DESIGN OF LONG-LOOP CONVECTIVE HEAT TRANSFER SYSTEMS FOR SOLAR HEATERS, McFarland, Michael, Zomeworks Corp, Albuquerque, NM, ASME Pap N 72-WA/Sol-9 for Meet Nov 26-30, 1972, 5 pp. (TAC: ST74 40250). Available from ESL 345 East 47th St., N.Y., NY 10017.

DOMESTIC SOLAR WATER HEATER, Mathur, K.N. et al, Journal of Scientific Industrial Research, 18A, Feb, 1959.

EFFECT OF STORAGE HEIGHT ON THE PERFORMANCE OF A NATURAL CIRCULATION (THERMOSYPHON) HOT WATER SYSTEM, Baughn, J.W., Dougherty, D.A., 2nd NPSC, p. 637.

AN EVALUATION OF TWO BREADBOXES, Melzer, B., Starr, G., 2nd NPSC, p. 627.

GLASS PLATE SOLAR WATER HEATER, Volunteers for Interntl Technical Assis (VITA), Village Technology Plan 5513.2, Mt Ranier, MD, n.d.

HOT LIQUID ENERGY STORAGE SYSTEM UTILIZING NATURAL CIRCULATION, Phillips, W.F., Utah St Univ, Logan; Pate, R.A., ASME Pap N74-WA/HT-16, 8 pp, 3 refs, Nov, 1974, \$3.00. (TAC: ST75 42004).

HOW TO BUILD A SOLAR WATER HEATER, Brace Research Institute, Leaflet No L-4, Quebec, Canada, revised edn, Feb., 1973.

AN IMPROVED COMPUTER PROGRAMME FOR THE THERMAL PERFORMANCE OF A SOLAR WATER HEATER, Ong, K.S., Engr Faculty, Univ of Malaya, Kuala Lumpur 22-11, Malaysia.

INSTALLING SOLAR WATER HEATERS, Morse, R.N., Commonwealth Scientific and Industrial Research Organization, Circular 1, Melbourne, Australia, 1959.

AN INVERTED SOLAR WATER HEATER FOR DOMESTIC HOT WATER, Heeschen, Conrad, 2nd NPSC, p. 632.

THE LONG-TERM PERFORMANCE OF FLAT-PLATE SOLAR ENERGY COLLECTORS, Liu, B.Y.H., and Jordan, R.C., Solar Energy, Vol 7, No 2, 1963, pp. 53.

NATURAL CIRCULATION FROM A FLAT PLATE COLLECTOR TO A HOT LIQUID STORAGE TANK, Philips, W.F., Cook, R.D., Utah St Univ, Logan, ASME Pap N75-HT-53 for Meet 5 p, 4 refs, Aug, 1975. (TAC: ST75 40211). Available from Eng. Societies Library, 345 East 47th St., NY, NY 10017.

OPTIMAL MASS-FLOW RATES THROUGH FLAT-PLATE SOLAR COLLECTOR PANELS, Hewitt, H.C., Griggs, E.I., Tennessee Technol Univ, Cookeville, TN, Mechanical Engineering, Vol 99:132, N 2, 1977. (TAC: ST77 21044).

OTHER ASPECTS OF THERMIC DIODE SOLAR PANELS: COOLING AND TEMPERATURE CONTROL, Buckley, Shawn, Khandani, H., Manzano, J., 2nd NPSC, Vol 2 pp. 271-275.

PERFORMANCE OF A COLLECTOR-CUM-STORAGE TYPE OF SOLAR WATER HEATER, Chauhan, R.S., Kadambi, V., Punjab Agric Univ, Ludhiana, India, Solar Energy, V 18:327-335, N 4, 10 refs, 1976. Intntl Solar Energy Soc, Intntl Solar Energy Congress and Expo. Univ of Calif, Los Angeles, CA, July 28-Aug 1, 1975, A76-43182. (TAC: ST76 40096).

THE PERFORMANCE OF FLAT-PLATE SOLAR HEAT COLLECTORS, Hottel, H.C. and Woertz, B.B., Trans Am Soc Mech Engr, Vol 64, 1942, pp 91-104.

PERFORMANCE OF 40-GALLON SOLAR THERMOSYPHON WATER HEATER SYSTEMS AT HIGH ALTITUDES, Lillywhite, Malcolm, 2nd NPSC, p. 651.

PERFORMANCE OF SOLAR WATER HEATERS WITH NATURAL CIRCULATION, Close, D.J., REPR:SOL EN:1-62 13A0031 1962 P33-40 TP, ASUSI.

RECENT DEVELOPMENT OF SOLAR WATER HEATERS IN JAPAN, Tanishita, I., UN: Rome E 35-S68.

RESULTS OF SOLAR COLLECTOR STUDY, Vale, R.J.D., Working Paper 12, Technical Research Div, Univ of Cambridge, Dept of Architecture, England 1973.

THE SIMPLE DOMESTIC SOLAR WATER HEATER, Sheridan, N.R., Univ of Queensland, Dept. Mech. Engr, Solar Research Notes, No. 5, Australia.

- SOLAR ENERGY COLLECTOR PANEL, Cutchaw, J.M., US Patent 3,923,038, Dec 2, 1975.
- THE SOLAR SWITCH, AND AUTOMATIC DEVICE FOR ECONOMIZING AUXILIARY HEATING OF SOLAR WATER HEATERS, Robinson, N. and Neeman, E., UN: Rome E 35-S31.
- SOLAR WATER HEATER PLANS, Zomeworks, P.O. Box 712, Albuquerque, NM 87103, \$5.00, (TAC: ST74 40285).
- SOLAR WATER HEATERS, Sobotka, R., UN Rome, E 35-S26.
- SOLAR WATER HEATERS, Mathur, K.N. and Khanna, M.L. UN: Rome, E 35-S102.
- SOLAR WATER HEATERS, Sheridan, N.R., Solar Research Notes, Univ of Queensland, Australia, 1969.
- SOLAR WATER HEATERS FOR DOMESTIC AND FARM USE, Morse, R.N., Commonwealth Scientific and Industrial Research Org, Engr Sec Rept, ED5 Melbourne, Australia, 1957.
- SOLAR WATER HEATERS & STACK COIL HEATING SYSTEMS: HOT WATER, Scott & Chloe Morgan, David & Susan Taylor; 350 E. Mountain Drive, Santa Barbara, CA, Apr, 1975.
- SOLAR WATER HEATING, Bickley, L., p 29, PSHCC.
- SOLAR WATER HEATING IN GREAT BRITAIN, Heywood, H., Solar Energy, Vol 3, No 3, Oct 1959, pp 29-30.
- SOLAR WATER HEATING IN SOUTH AFRICA, Council for Scientific and Industrial Research, Pretoria, South Africa, National Bldg Research Inst Bulletin 44, CSIR Research Rept 248, P. VII, 79, '67, 48 Figures, 31 Tables. Also Solar Energy, V 12: 395-397 '69. (TAC: ST74 40214).
- STRATEGIES AND CONSEQUENCES OF REVERSE JUICE IN PASSIVE SYSTEM DESIGN CONCEPTS, Mingenbach, William, p. 46, PSHCC.
- STUDY OF SOLAR WATER HEATING IN ALGERIA, Savornin, J., UN: Rome, E 35-S72.
- SYSTEM DESIGN IN SOLAR WATER HEATERS WITH NATURAL CIRCULATION, Gupta, C.L., Garg, H.P., Solar Energy, V 12: 163-182, N 2, 1968. (TAC: ST74 40231).

TECHNICAL NOTE: PASSIVE FREEZE PROTECTION FOR SOLAR COLLECTORS,  
Bickle & Associates, Albq., NM.

TEMPERATURE DISTRIBUTION OF A HOT WATER STORAGE TANK IN A SIMULATED  
SOLAR HEATING AND COOLING SYSTEM, Namkoong, D., NASA, Lewis  
Research Ctr, Cleveland, OH, NASA-TM-X-73549, 17 p, Nov, 1976,  
E-8985, N77-12521/9WE. (TAC: ST77 23023).

TESTING OF A COLLECTOR-CUM-STORAGE TYPE OF SOLAR WATER HEATER,  
Rajinder Singh Chauhan, Mech Engr Dept, Punjab Agricu Univ,  
Ludhiana, Punjab, India.

THE THING-A DIRECT GAIN SOLAR HOT WATER HEATER FOR NEW YORK CITY,  
Golubov, M., Leffler, John & James W., 2nd NPSC, Vol. 2,  
pp. 642-646.

TRANSIENT ANALYSIS OF THERMIC DIODE SOLAR PANEL, Bernard, Douglas,  
Buckley, S., Durand, J., Zambrano, E., 2nd NPSC, p. 469.

USE OF SOLAR ENERGY FOR HEATING WATER, Brooks, F.A., Publication  
3557, Smithsonian Inst, Wash, DC., 1939.

THE USE OF SOLAR ENERGY FOR HEATING WATER, Farber, E.A., UN: Rome,  
E 35-S1.

USE OF SOLAR ENERGY FOR WATER HEATING, Geoffrey, J., UN: Rome,  
E 35-S58.

USE OF SOLAR ENERGY FOR WATER HEATING, Hisada, T. and Oshida, I.,  
UN: Rome E 35 Gr-S13.

USE OF SOLAR ENERGY FOR HEATING WATER, Brooks, F.A. New Mexico Solar  
Energy Assoc, Santa Fe, NM.

WATER HEATING BY SOLAR ENERGY, Morse, R.N., UN: Rome, E 35-S38.

XIII. GENERAL COOLING

ASSESSING THE VIABILITY OF THE SKY AS A HEAT SINK FOR PASSIVE COOLING IN NORTH CENTRAL TEXAS, Hand, Jon W., Higgs, F., 2nd NPSC, p. 679.

BUILDINGS FOR HOT CLIMATES, Givoni, B., Tech-Isr Inst of Technol, Haifa, Build Res Pract Vol 2, N 6, pp 336-343, 6 refs, Dec, 1974. (TAC: ST75 55207)

CHEAP AIR COOLING FOR HOT CLIMATES, Surrett, Herb, 4A0100, 1967, ASUSI.

CLIMATE BASED SOLAR HOUSE DESIGN: HOT AND HUMID CHARLESTON, S.C., Scully, D.V., Louisiana St Univ, Total Environmental Action, Inc, Harrisville, NH from Proceedings of the Second South-eastern Conf on Application of Solar Energy, CONF-760423, Energy Research & Dev Admin, Wash., DC, Div of Solar Energy, July, 1976. Available from Pergammon Press, Inc., Maxwell House Fairview Park, Elmsford, NY 10523, \$38,00.

CONTROLLING ROOF SOLAR HEAT EFFECTS IN BUILDINGS OF SOUTHWEST, Long, W.E., TEX JS:V2:3 4DE0006 1950 P35-8 TP, ASUSI.

DESIGN AND PERFORMANCE OF NATION'S ONLY FULLY SOLAR-HEATED HOUSE, Bliss, R.W., Jr., Air Conditioning, Heating & Vent., Vol 52, pp 92-97, N 10, Oct, 1955. (TAC: ST74 55207)

AN ECOLOGIC SOLAR HEATED AND COOLED HOME, Anderson, B., Coonley, D., Inst of Environmental Sciences, Mt Prospect, IL, Vol 1, pp 206-210, 1975; In: Inst of Environmental Sciences, Annual Technical Mtgs, 21st, Anaheim, CA, Proceedings, Apr 14-16, 1975, A75-34926 16-31, A75-34937. (TAC: ST76 55049)

ENGINEERING AND ECONOMIC STUDY OF THE USE OF SOLAR ENERGY ESPECIALLY FOR SPACE COOLING IN INDIA AND PAKISTAN, Ashar, N.G., and Reti, A.R., UN: Rome, E35-S37.

THE ESTIMATION OF ATMOSPHERIC RADIATION FOR CLEAR AND CLOUDY SKIES, Allen, Chester, Clark, G., 2nd NPSC, p. 675.

HEATING, COOLING THROUGH THE SUN AND SPACE, Moesta, H., Umwelt, Vol 2, No 6, Dec, 1972, in German, pp 53-58.

HOUSE COLLING IN WARM DRY CLIMATES, Progress Report No 2, Neubauer, L.W., 4D10018, 1955, 3 pp, TP, ASUSI.

HYBRID COOLING METHODS-NIGHTTIME COOLDOWN OF BUILDING MASS AND NIGHT-SKY EVAPORATIVE/RADIATIVE COOLING, Roberts, J.D., 2nd NPSC, p. 658.

IMPROVED NATURAL AIR CONDITIONING FOR THE TROPICS, Hay, H.R., Symposium Environmental Physics, Central Building Research Inst, Roorkee, India, Feb, 1969.

INTEGRATED RADIATION CONVECTION COOLING SYSTEM DESIGN AND PERFORMANCE, Meckler, G., ASHRAE Journal, Vol 3, No 12, 1961, ASHRAE Transactions, Vol 68, 1962.

MANUAL OF TROPICAL HOUSINGS AND BUILDINGS - PART 1 CLIMATIC DESIGN, Koenigsberger, et al, Longman, London, 1974, 320 pp, \$9.00, \$4.95.

NATURAL COOLING: RESULTS AND PROBLEMS, Bartoli, B., Catalonotti, S., Coluzzi, B., Cuomo, V., Silvestrini, V., Troise, G., Monza, E., Univ of Naples, Italy, Heliotech and Dev, Proc of the Int Conf, Dhahran, Saudi Arabia. Nov 2-6, 1975.  
(TAC: ST77 30095)

NATURAL CONVECTION COOLING AND DEHUMIDIFYING, ASHVE Transactions, Vol 64, 1958, ASHVE Journal, Vol 29, No 12, 1957.

A NEW NOCTURNAL AIR COOLING SYSTEM, Fonda-Bonardi, Mario, Pinney, N., Yu, Y-N., 2nd NPSC, p. 670.

PASSIVE COOLING SYSTEMS IN IRANIAN ARCHITECTURE, Bahadori, Mehdi N., Scientific American, Feb, 1978, Vol 238, No 2, pp. 144-154.

PASSIVE NOCTURNAL COOLING IN THE U.S.-A PRELIMINARY ASSESSMENT, Loxsom, F.M., Rhombs, D.G., 2nd NPSC, p. 687.

THE RESOURCE FOR RADIATIVE COOLING, Berdahl, Paul, Martin, M., 2nd NPSC, p. 684.

STUDIES OF EVAPORATIVE AND CONVENTIONAL COOLING OF AN ENERGY CONSERVING CALIFORNIA HOUSE, Baughn, J., Gates, S.D., Rosenfeld, A.H., 2nd NPSC, p. 665.

A STUDY OF NATURAL COOLING PROCESSES IN A HOT, ARID REGION, Hansen, D.G., Yellott, J.I., 2nd NPSC, pp. 653-657.

SURVIVAL SHELTER COOLING: CONVENTIONAL AND NOVEL SYSTEM, Hummell, J.D., Bearint, D.E., Eibling, James E., ASHRAE Transactions, Vol 71, Pt. 1, 1965, ASHRAE Journal, Vol 7, No 3, 1965.

THERMAL ANALYSIS OF BUILDING WITH NATURAL AIR CONDITIONING, Hay, H.R., Yellott, J.I., ASHRAE Transactions, Vol 75, pp 178-190, Pt 1, Paper 2103, 1969, 16 refs. (TAC: ST74 55220)

XIV. VENTILATION

LANDSCAPE DEVELOPMENT AND NATURAL VENTILATION: EFFECT OF MOVING AIR ON BUILDINGS AND ADJACENT AREAS White, Robert F., Texas Engr Experiment Sta, College Station, TX, 1976.

NATURAL VENTILATION OF UNDERGROUND FALLOUT SHELTERS, Ducar, G.J., Engholm, G., ASHRAE Transactions, Vol 71, Pt 1, 1965; ASHRAE Journal, Vol 7, No 8, 1965.

NATURAL VENTING TO CONTROL SMOKE MOVEMENT IN BUILDINGS VIA VERTICAL SHAFTS, Tamura, G.T., Wilson, A.G., ASHRAE Transactions, Vol 76, Pt 2, 1970.

A PRIMER ON ATTIC VENTILATION, Wolfert, C.K., RSI, Oct., 1975.

THERMAL PERFORMANCE OF OLD BUILDINGS IN CENTRAL IRAN EMPLOYING AIR TOWERS, Bahadori, Mehdi, PSHCC.

VENTILATED WALL, Risley, Douglas S., PAT: 2,703,442 4DD0004, 1955  
4P TP ASUSI.

XV. CONVECTION

- AN APPROXIMATE ANALYSIS OF NATURAL CONVECTION SOLAR AIR HEATERS, Macedo, I.C.; Campinas, Universidade Estadual, Campinas, Sao Paulo, Brazil; Vol B:503-512; 1976; In Cobem 75; Brazilian Congress on Mechanical Engineering, 3rd, Rio De Janeiro, Brazil; Dec. 9-11, 1975; Annals, Rio De Janeiro, Universidade Federal; A76-45126 23-31; A76-45150. (TAC: ST77 21022).
- BULLETIN; New Mexico Solar Energy Assn.; August 1976; Vol 1, No 1.
- BULLETIN; New Mexico Solar Energy Assn.; Nov. 1977; Vol 2, No 11.
- BULLETIN; New Mexico Solar Energy Assn.; Oct. 1977; Vol 11, No 10.
- DESIGN DATA FOR HEATING AIR BY MEANS OF HEAT EXCHANGER WITH RESERVOIR, UNDER FREE CONVECTION CONDITIONS, FOR UTILIZATION OF SOLAR ENERGY, Khanna, M.L.; National Physical Lab., New Delhi, India; Solar Energy, Vol 12, No 4; Dec. 1969; pp. 447-456.
- THE DESIGN OF LONG-LOOP CONVECTIVE HEAT TRANSFER SYSTEMS FOR SOLAR HEATERS, McFarland, Michael; Zomeworks; Albq.N.M., ASME Winter Mtng; 1972, 72-WA, Sol. 9.
- EXPERIMENTAL INVESTIGATION OF NATURAL CONVECTION IN INCLINED RECTANGULAR REGIONS OF DIFFERING ASPECT RATIOS, Arnold, J.N., Catton, I. and Edwards, D.K.; Univ. of Calif., Los Angeles; ASME Pap N75-HT-62 for Meet; 5 pp.; 14 refs; Aug. 11-13, 1975. (TAC: ST75 40013).
- HOT AIR WATER HEATERS, Baer, Steve; Zomeworks, Albuquerque, NM; no date.
- IMPROVED SOLAR HEATING SYSTEM, Jensen, R.N.; NASA, Langley; NASA-CASE-LAR-12009-1; 13 pp.; Filed Aug. 24, 1976; This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing; PAT-APPL-717 320/WE; N76-32649/5; Avail:NTIS. (TAC: ST77 30030).
- NATURAL CONVECTION COOLING AND DEHUMIDIFYING; Bryan, W.L., Seigel, L.G. ASHVE Transactions, Vol. 64, 1958; ASHVE Journal, Vol. 29, No. 12, 1957.

NATURAL CONVECTION IN ENCLOSED SPACES-A REVIEW OF APPLICATION TO SOLAR ENERGY COLLECTOR, Buchberg, H., Catton, I. and Edwards, D.K.; Univ. of Calif., Los Angeles, Ca.; J Heat Transfer Trans, ASME, Vol 98:182-188; N2, Paper No. 74-WA/HT-12; May 1976. (TAC: ST76 40062).

A RE-EVALUATION OF THE AVERAGE CONVECTION COEFFICIENT FOR FLOW PAST A WALL, Cooper, K.W. and Tree, D.R.; ASHRAE Transactions, Vol 79, Pt 1; 1973.

SOLAR AIR HEATER, Rogers, Buck; Alternate Sources of Energy; No. 14, pp. 26, May 1974.

THEORETICAL PERFORMANCE OF A NATURAL SOLAR ENERGY COLLECTION SYSTEM FOR HOUSE HEATING, O'Hanessian, P., Charters, W.W.S.; Univ. of Melbourne, Parkville, Australia; from 1975 International Solar Energy Congress and Exposition; ISES, Rockville, MD; 1975.

WINDOW-MOUNTED SOLAR COLLECTOR; Morris, W. Scott; P.O. Box 4815, Santa Fe, NM 87501, Jan., 1977.

XVI. EVAPORATION

EXPERIMENTAL STUDY OF THE EFFECT OF ROOF SPRAY COOLING ON UNCONDITIONED AND CONDITIONED BUILDINGS, Jain, S.P., Cent Build Res Inst, Roorkee, India; Rao, K.R., Build Sci, Vol 9, pp 9-16, No 1, March 1974, 7 refs. (TAC: ST74 55225).

EVAPORATIVE COOLING - A SYMPOSIUM, HEATING, PIPING AND AIR CONDITIONING, Smith, W.T., ASHVE Journal, Vol 27, No 8, 1955; pp. 141-147.

NOCTURNAL COOLING AND SOLAR HEATING WITH WATER PONDS AND MOVABLE INSULATION, Niles, Phillip, Haggard, Kenneth, Hay, Harold, ASHRAE Journal, Vol 82, Pt 1, 1976.

ROOF SPRAY FOR REDUCTION IN TRANSMITTED SOLAR RADIATION, Sutton, G.E., ASHVE Transactions, Vol 57, 1951; ASHVE Journal, Vol 22, No 9, 1950.

SOLAR RADIATION ABSORPTION BY WETTED ROOFS, Woolrich, W.R., Rice, W.M., REPR:BLDG SYS D:l-48 4CF0005 1948 P84-6 TP ASUSI.

SUMMER COOLING LOAD AS AFFECTED BY HEAT GAIN THROUGH DRY, SPRINKLED, AND WATER COVERED ROOFS, Houghten, ASHRAE TR:V46 '40 P231-46 JA ASUSI.

TRANSPIRATION COOLING OF RADIATIVELY HEATED POROUS BED, Hamid, Y.K., Univ Khartoum, Sudan, ASME, Beckman, W.A., NY, 1969.

WATER-COOLED ROOFS, Architectural Forum, June, 1946, pp. 165-169.

XVII. EVAPORATION/CONDENSATION

- APPLICATION OF HEAT PIPES TO SOLAR COLLECTORS, Bienert, W.B., Trimmer, D.S., and Wolf, D.A.; Dynatherm Corp., Cockeysville, MD; Inst of Electrical and Electronics Engineers, Inc.; pp. 1533-1539; 11 refs; 1975; In: Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th; Newark, DE; August 18-22, 1975; A75-45920, 23-44; A75-46045; ERDA-NSF-sponsored research. (TAC: ST76 41029)
- ELIMINATION OR CONTROL OF MATERIAL PROBLEMS IN WATER HEAT PIPES. SEMI-ANNUAL REPORT COVERING THE PERIOD FROM JANUARY 1 TO JUNE 30, 1974, Pittinato, G.F.; McDonnell Douglas Astronautics Co., Huntington Beach, CA; July 31, 1974; NTIS; \$3.75.
- FREON-ACTUATED CONTROLS, Baer, Steven; PSHCC 1976. Av. from NTIS.
- HEAT PIPES APPLIED TO FLAT-PLATE SOLAR COLLECTORS, Bienert, W.B.; Maryland Univ., Dept. of Mech, Engin., College Park; from Proceedings on Solar Collectors for Heating and Cooling of Buildings; Sargent, S.L., Ed.; Amer Soc Mech Engin; New York; May 1975.
- HEAT PIPES IN FLAT PLATE SOLAR COLLECTORS, Bienert, W.B. and Wolf, D.A.; Dynatherm Corp., Cockeysville, MD; ASME Paper 76-WA/SOL-12; 11 pp.; American Society of Mechanical Engineers; Winter Annual Meeting; New York; Dec. 5-10, 1976; E (11-1)-2604; A77-26517. (TAC: ST77 21060)
- HEAT PIPES IN PASSIVE SOLAR HEATING AND COOLING SYSTEMS, Bienert, Walter; p. 300. PSHCC.
- HEAT PIPES-NEW WAYS TO TRANSFER ENERGY; Edelson, Ed; POP SCI:06/74; pp. 102-103, 139; JA. ASUSI.
- THE HEAT PIPE: SPACE SPINOFF FOR HEAT TRANSFER, Eastman, G.Y.; Heating, Piping, and Air Conditioning, Vol 41, No 12; Dec. 1969.
- HEAT PIPE THERMAL RECOVERY UNIT APPLICATIONS, Ruch, M.A. and Grover, G.M.; Q-Dot Corp., Dallas, TX; In ESA Heat Pipes; pp. 439-449; See N76-32374 23-31; N76-32411. (TAC: ST77 32020)
- SOLAR COLLECTOR THERMAL POWER SYSTEM. VOLUME 2: DEVELOPMENT, FABRICATION AND TESTING OF FIFTEEN-FOOT HEAT PIPES, Richter, R.; Xerox Electro-Optical Systems, Pasadena, CA; N75-19340; Contract F33615-72-C-1092; AF Proj 3145; AD-A0000941; Rept-4074-Vol-2; AFAPL-TR-74-89-2; 198 pp., refs; 3 Vol; Nov. 1974. (TAC: ST75 41206).

VBP HEAT PIPES FOR ENERGY STORAGE, Basiulis, A; Hughes Aircraft Co., Torrance, CA; Intersoc Energy Convers Eng Conf, 11th; Proc, State Line, NV; Sept. 12-17, 1976; Publ by AICHE, New York, NY; Vol 1:901-904; 3 refs.; SAE Pap 769155; 1976.  
(TAC: ST77 23027)

XVIII. RADIATION-DIRECT

ON BIOT'S VARIATIONAL PRINCIPLE FOR SOME TRANSIENT HEAT TRANSFER PROCESSES INVOLVING THERMAL RADIATION, Yeh, L.T., PhD. Thesis, Akron Univ, Akron, OH, 222 p, Order No 76-24403, N77-13353  
Avail: Univ Microfilms. (TAC: ST77 33021)

RADIATION EXCHANGE FOR A SYSTEM WITH PARTIALLY TRANSMITTING WALL, Hussain, N.A., Siegel, R., NASA Lewis Research Ctr., Cleveland, Oh., Letters in Heat and Mass Transfer, Vol 2, pp. 105-114, 7 refs, Mar-Apr, 1975, A75-39394. (TAC: ST40033)

UTILIZATION OF SUN AND SKY RADIATION FOR HEATING AND COOLING OF BUILDINGS, Yellott, John I., ASHRAE Journal, Vol 15, No 12, pp. 31-42, 1973.

IXX. RE-RADIATION-INDIRECT

- CONSTRUCTION AND OPERATION OF A NATURALLY AIR-CONDITIONED BUILDING, Hay, H.R., Yellott, J.I., Sky Therm Processes and Engineering, Phoenix, Arizona; N74-75884/8GA, Rept No 68-WA/SOL-2, 12 pp, Dec 1968. Presented at the ASME Winter Annual Meeting and Energy Systems Exposition, NY, Dec 1-5, 1968, Rept No 68-WA/SOL/-2. Prepared in cooperation with ASME, NY, and Engr Associates, Phoenix, AZ. (TAC: ST75 55227).
- DEVICE FOR THE ABSORPTION AND EMISSION OF HEAT, Laing, N., US Patent 3,873,506, July 8, 1975.
- EMISSIVITY OF ICE, SNOW, AND FROZEN GROUND, Bevans, J.T. and Dunkle, R.V., and Gier, J.T., ASRE Journal, Vol 65, No 4, 1957.
- DIURNAL RADIANT EXCHANGER WITH THE SKY DOME, Cramer, Richard D., Neubauer, L.W., Solar Energy Vol 9, No 2, 1965.
- INTEGRATED RADIATION CONVECTION COOLING SYSTEM DESIGN AND PERFORMANCE, Meckler G., ASHRAE Journal, Vol 3, No 12, 1961; ASHRAE Transactions, Vol 68, 1962.
- NATURAL AIR-CONDITIONING WITH ROOF PONDS AND MOVABLE INSULATION, Hay, Harold, Yellott, John I., ASHRAE Journal, Vol 75, Pt 1, 1969.
- NATURALLY AIR-CONDITIONED BUILDING, Hay, H.R., Yellott, J.I., Mechanical Engineering, Vol 92, pp 19-25, N 1, Jan 1970, 10 refs. (TAC: ST74 55221).
- NEW ROOFS FOR HOT DRY REGIONS, Hay, H.R., Ekistics, No 153, Feb, 1971, pp 158-64.
- NIGHT AIR COOLING, Giesecke, F.E., ASHVE Transactions, Vol 56, 1950; ASHVE Journal, Vol 22, No 1, 1950.
- NOCTURNAL HEAT LOSS FROM HORIZONTAL SURFACES IN ARID REGIONS, Yellott, J. UN Conf: New Sources of Energy 1B0129 1961 19P TP ASUSI.
- NOCTURNAL RADIATION MEASUREMENT, ATLANTA, GEORGIA, Picha, K.G., and Villanueva, Jose, Solar Energy Journal, Vol 6, No 4, 1962.
- NOCTURNAL WATER COOLING BY SKYWARD RADIATION IN ISRAEL, Cohen, A. Bar and Rambach, D. of Mech of Engrn, Ben Gurion Univ of the Negev, Beer Sheva, Israel 73901, 298 pp.

- PERFORMANCE OF AN EXPERIMENTAL SYSTEM USING SOLAR ENERGY FOR HEATING, AND NIGHT RADIATION FOR COOLING A BUILDING, Bliss, R.W., Jr., Univ of Arizona, Tucson, AZ; From Proceedings of the United Nations Conference on New Sources of Energy, Vol 5, UN, NY, 1964.
- PRINCIPLES OF AIR-CONDITIONING IN COUNTRIES WITH CLEAR SKY, Trombe, F., UN Conf: New Sources of Energy, 4A0031 1961 24P TP ASUSI.
- RADIATION AND PASSIVE COOLING, Lawrence Livermore Laboratory, Berkeley, California.
- RADIATION COOLING OF STRUCTURES WITH INFRARED TRANSPARENT WIND SCREENS, Johnson, T.E., MIT, Cambridge, MA 02139, Solar Energy, Vol 17, pp 173-178, 1975. (TAC: ST75 44202).
- RESEARCH EVALUATION OF A SYSTEM OF NATURAL AIR-CONDITIONING, Hay, Harold R., Calif Polytech St Univ, 1975.
- RESEARCH EVALUATION OF A SYSTEM OF NATURAL AIR CONDITIONING, FINAL REPORT, Haggard, K.L., Edmiston, J.W., Feldman, J., Hawes, M., Niles, P.W.B., Calif Polytech St Univ, San Luis Obispo, CA, Jan, 1975, from Roof Ponds and Movable Insulation, NTIS, \$10.00, 9:501:365.
- RESIDENTIAL COOLING BY REFLECTIVE RADIATION, Mills, C.A., ASRE Journal, Vol 58, No 11, 1950.
- SOLAR ROOF PONDS, "EARLY TESTS OF THE 'SKYTHERM' SYSTEM", Yellott, John, p. 54, PSHCC.
- THERMAL ANALYSIS OF A BUILDING WITH NATURAL AIR CONDITIONING, Yellott, John I., Hay, Harold, ASHRAE Transactions, Vol 75, Pt 1, 1969.

XX. ABSORPTION

DEVICE FOR THE ABSORPTION AND EMISSION OF HEAT, Laing, N.; U.S.  
Patent 3,893,506; July 8, 1975.

XXI. REFLECTIVITY

- ARCTIC GARDEN SOLAR REFLECTORS & RADIATORS FOR NORTHERN CLIMATES,  
Bensin, Basil M.; 12A0023; 1952; 7 pp.; TP; ASUSI.
- GEOMETRICAL ANALYSIS OF REFLECTOR-SOLAR THERMAL COLLECTOR COMBINA-  
TIONS, McDaniels, D.K., Lowndes, D.H. and Kseh, H.D.; Physics  
Dept., Univ. of Oregon, Eugene.
- HORIZONTAL COLLECTOR WITH A MIRROR ON THE NORTH SIDE, Clark, A.F.;  
California Univ., Lawrence Livermore Lab., Livermore, CA;  
6 pp.; Presented at New England Solar Energy Conf., Amherst,  
MA; June 24, 1976; UCRL-77906; CONF-760657-2; W-7405-ENG-48;  
N77-19639; Avail: NTIS; HC A02/MF A01. (TAC: ST77 26005).
- TRANSPARENT HEAT MIRRORS FOR SOLAR-ENERGY APPLICATIONS, Fan, J.C.C.  
and Bachner, F.J.; MIT, Lexington, MA; Applied Optics, Vol  
15:1012-1017; 8 refs.; April 1976; USAF-sponsored research;  
AD-A027-105/6WE; A76-26719. (TAC: ST76 50082).

PART B

ALPHABETICAL LISTING BY AUTHOR

- Abbaspour, M., Glicksman, L.R., MIT, Cambridge, MA, THE PROPER USE OF THERMAL STORAGES FOR A SOLAR ASSISTED HEAT PUMP HEATING SYSTEM, ASME Paper 76-WA/HT-76, 10 pp., 1976 American Society of Mechanical Engineers, Winter Annual Meeting, New York, NY, Dec. 5-10, 1976, A77-26492. (TAC: ST77 23036)
- Abrash, Michael, THE IMPACT OF ACTIVE AND PASSIVE BUILDINGS ON UTILITY PEAK LOADS, 2nd NPSC, p. 811.
- Abrash, Michael, MODELING PASSIVE BUILDINGS USING TRNSYS, 2nd NPSC, p. 398.
- Abrash, M., P. Sullivan, and R. Wirtshafter. "The Economic Tradeoffs between Active and Passive Solar Heating and Energy Conservation on Residential Buildings." v. 2, p. 543-548.
- Achenbach, P.R., Drapeau, F.J., Phillips, C.W., ENVIRONMENTAL CHARACTERISTICS OF A SMALL UNDERGROUND FALLOUT SHELTER, ASHRAE Journal, Vol. 4, No. 1, 1962.
- Acme Brick, A CRITICAL COMPARISON, A STUDY OF THE RELATIVE ECONOMIC PERFORMANCE OF MASONRY VERSUS GLASS OFFICE BUILDINGS, Fort Worth, Texas, 2nd print.
- Agha, M.F., A QUANTITATIVE METHOD FOR THE DESIGN OF BUILDINGS WITH COMFORTABLE MICROCLIMATES BY PASSIVE CONTROL OF SOLAR EFFECTS, 2nd NPSC, p. 404.
- AIA Research Corporation. A Survey of Passive Solar Buildings. Washington, D.C.: 1978. Available from Publications Fulfillment, American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006. \$12.75 (paper)
- AIA Research Corporation. Climate Comfort and Your Building; Regional Guidelines for Building Passive Energy Conserving Homes. Washington, D.C.: U.S. Government Printing Office, November 1978 (Price and order number not set).
- Ailken, Dr. Donald W., SOLAR ENERGY IN RESIDENTIAL DESIGN AND USE, Center for Solar Energy Applications, San Jose, CA, Jan. 1977, 22 pp.
- Akbari, H., CORRELATIONS FOR SEVERAL IMPORTANT DESIGN PARAMETERS OF LAMINAR-FREE CONVECTIVE FLOW WITHIN THE TROMBE WALL CHANNEL, 2nd NPSC, p. 570.

- Akridge, James M., ROCK COLLECTOR AND STORAGE SYSTEM FOR GREENHOUSE AND RESIDENT HEATING, Engineering Experiment Sta., Ga. Inst. of Tech.
- Allen, Chester, Clark, G., THE ESTIMATION OF ATMOSPHERIC RADIATION FOR CLEAR AND CLOUDY SKIES, 2nd NPSC, p. 675.
- Allen, Robert B., CONTROLLED EXPERIMENTS USING PASSIVE SOLAR TECHNIQUES IN THE PASSIVE NORTHWEST, 2nd NPSC, p. 431.
- Altman, Manfred, Principal Investigator, CONSERVATION AND BETTER UTILIZATION OF ELECTRIC POWER BY MEANS OF THERMAL ENERGY Report No. NSF/RANN/SE/G127976/72/4, University of Pennsylvania, Dec. 31, 1972.
- Ambrose, E.R., THERMAL INSULATION AND DOUBLE GLAZING, Heat Piping Air Cond V 47:57-58, 80, N11, Oct. 1975. (TAC: ST76 50001)
- Am. Inst. Phys. Conf. Proc., ENERGY CONSERVATION AND WINDOW SYSTEMS, No. 25, 1975, pp. 247-254.
- Am. Inst. Phys. Conf. Proc., WINDOW SYSTEMS AND CLIMATE CONTROL PERFORMANCE, No. 25, 1975 pp. 255-285.
- Anderson, B., Coonley, D., AN ECOLOGIC SOLAR HEATED AND COOLED HOME, Institute of Environmental Sciences, Mount Prospect, IL, V 1:206-210, 1975, In: Institute of Environmental Sciences, Annual Technical Meetings, 21st, Anaheim, CA, Proceedings, Apr. 14-16, 1975, A75-34926, 16-31, A75-34937. (TAC: ST76 55049)
- Anderson, B., Schully, D., and Michal, C., A NON-TECHNICAL EVALUATION OF FOUR DIFFERENT CONCRETE WALL SOLAR COLLECTOR CONFIGURATIONS, Total Environmental Action, Inc., Harrisville, N.H. (NASA 77A48990)
- Anderson, Bruce, Sullivan, P., BARRIERS, ADVANTAGES, AND INCENTIVES FOR PASSIVE SOLAR DESIGN, 2nd NPSC, p. 736.
- Anderson, Bruce, HEAT TRANSFER MECHANISM, THE 1967 ODEOILLO HOUSE, INTEGRATED COLLECTION AND STORAGE SYSTEMS, p. 23 PSHCC.
- Anderson, Bruce, SOLAR ENERGY AND SHELTER DESIGN, Total Environmental Action, Church Hill, Harrisville, NH, 03450, 1973; 150 pp.
- Anderson, Bruce, SOLAR ENERGY: FUNDAMENTALS IN BUILDING DESIGN, McGraw Hill Book Co., New York, San Francisco, 1977.
- Anderson Bruce, THERMAL STORAGE WALLS, CONVECTIVE LOOPS, & ATTACHED SUNSPACES: A BRIEF INTRODUCTION, 2nd NPSC, p. 16.

- Anderson, Bruce, THE SOLAR HEATED AND COOLED TYRRELL RESIDENCE, p. 150 PSHCC.
- Anderson, Bruce, with Riordan, M., THE SOLAR HOME BOOK: HEATING, COOLING AND DESIGNING WITH THE SUN, The Solar Bookshop; Total Environment Action, Inc; Church Hill, Harrisville, NH 03450; 1976. \$7.50.
- Angel, W., Ducas, W., Holton, J., Streed, E., THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES FOR PASSIVE BUILDINGS, National Bureau of Standards, Washington, D.C. In Press.
- Angel, Williams, THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES FOR PASSIVE BUILDINGS, 2nd NPSC, p. 411.
- Anufriev, L.N., THERMOPHYSICAL ANALYSIS OF A TRANSPARENT WALL WITH REGULATED RESISTANCE TO HEAT TRANSFER, Tsniiepsel' stroi, Ministry of Rural Construction "App. Solar Energy" USSR Engl. Translation, Vol. 10. 3-4, 1974, pp. 96-102.
- Architectural Aluminum Manufacturers Association, VOLUNTARY STANDARD PROCEDURE FOR CALCULATING SKYLITE ANNUAL ENERGY BALANCE, Publication AAMA 1602.1.1977.
- Architectural Forum, WATER COOLED ROOFS, June, 1946 pp. 165-169.
- Arizona. State University. College of Architecture. Solar-Oriented Architecture. Washington, D.C.: AIA Research Corporation, 1975, 142 p. Available from: Publications Fulfillment, American Institute of Architects, 1735 New York Avenue, N. W. Washington, D.C. 20006. (#3-RC204) \$12.50 (paper)
- Arnold J., THE ROLE OF BRICK MASONRY IN ENERGY CONSERVATION DESIGN, AIA, Designing with Natural Energies: Sun, Air, Soil, Wind, Humidity, Temperature, BIA document.
- Arnold, J.N., Catton, I., Edwards, D.K., EXPERIMENTAL INVESTIGATION OF NATURAL CONVECTION IN INCLINED RECTANGULAR REGIONS OF DIFFERING ASPECT RATIOS, Univ. of Calif., Los Angeles ASME Pap N75-HT-62 for Meet 5 pp. 14 refs Aug. 11-13, 1975. (TAC: ST75 40013).
- Arumi, Francisco N., Ph. D., DAYLIGHTING AS A FACTOR IN OPTIMIZING THE ENERGY PERFORMANCE OF BUILDINGS, Numerical Simulation Laboratory, Work Paper Series, Research Program, School of Architecture, University of Texas, Austin.

- Arumi, Francisco N., A MANUAL METHOD TO CALCULATE THE DYNAMIC ENERGY PERFORMANCE OF WALLS, an appendix to the report, Thermal Inertia in Architectural Walls, School of Architecture, Univ. of Texas, Austin; September, 1976.
- Arumi, F.N., THERMAL INERTIA IN ARCHITECTURAL WALLS, for ERDA and National Concrete Masonry Association, 1977, NMCA, P.O. Box 135, McLean, Va., 22101.
- Arumi, Francisco N., THERMAL INERTIA IN ARCHITECTURAL WALLS, 1976 Division of Buildings and Community Systems, Energy Research and Development Administration, and National Concrete Masonry Association.
- Arumi-Noe, Francisco, A MODEL FOR THE DEROB/PASOLE SYSTEM, 2nd NPSC, p. 529.
- Ashar, N.G. and Reti, A.R., ENGINEERING AND ECONOMIC STUDY OF THE USE OF SOLAR ENERGY ESPECIALLY FOR SPACE COOLING IN INDIA AND PAKISTAN, UN: Rome, E35-S37.
- Ashbel, D., NEW WORLD MAPS OF GLOBAL SOLAR RADIATION DURING IGY (INTERNATIONAL GEOPHYSICAL YEAR 1957-1958), The Hebrew University Department of Climatology and Meteorology, Jerusalem, 1961.
- Ashrae, SOLAR ENERGY STORAGE SUBSYSTEMS FOR HEATING AND COOLING, April 16-18, 1975; Proceedings, Avail. from ASHRAE \$12.50.
- Ashve, NATURAL CONVECTION COOLING AND DEHUMIDIFYING, ASHVE Transactions, Vol. 64, 1958, ASHVE Journal, Vol. 29, No. 12, 1957.
- Ashve, THERMAL DESIGN OF WARM WATER CONCRETE FLOOR PANELS-A DESIGN MANUAL, Transactions, Vol. 63, '57.
- Askew, Gregory L., SOLAR HEATING UTILIZING A PARAFFIN PHASE CHANGE MATERIAL, 2nd NPSC, pp. 509.
- Association for Applied Solar Energy, DICTIONARY OF WORLD ACTIVITIES AND BIBLIOGRAPHY OF SIGNIFICANT LITERATURE, Phoenix, AZ; 1959.
- Atlas, Alvin, Pascale, R., Trvia, E., HYBRID SOLAR GREENHOUSE AT CATE FARM, 2nd NPSC, p. 185.
- Atwater, M.A., Bal., J.T., REGIONAL VARIATIONS OF SOLAR RADIATION WITH APPLICATION TO SOLAR ENERGY SYSTEM DESIGN, FINAL REPORT, Center for the Environment and Man, Inc., Hartford, CT, NSF/RA-760196, 127 p., July 1976, C EM-4185-550a, PB-259, 379/6WE. (TAC: ST77 3700)

Awad, A.H., SOLAR DRYER FOR DEHYDRATION OF PERISHABLE FOOD, University of Niger, Nsukka, Heliotech and Dev., Proc of the Int Conf., Nov. 2-6, 1975, Publ by Dev. Anal. Assoc., Cambridge, MA.  
(TAC: ST77 28023)

- Ayres, E. WINDOWS, Sci. Am., V 184:60-65, Feb 1951, EDB-77: 060698  
(TAC: ST77 33050)
- Babaev. A.B., Rzaev, P.F. DETERMINATION OF SOLAR HEAT ENTERING A ROOM THROUGH TRANSPARENT GLASS SURFACES, Polytechnical Inst., Baku, Appl. Solar Energy, USSR, English Transl. Vol. 11, No. 3-4.
- Baer, S. DRUM WALL, Zomeworks, Alb. N.M., 1973, pp. 186-187
- Baer, S., DRUM WALL PLANS, Zomeworks, Alb. N.M., 87103 No date.  
P.O. Box 712, \$5.00, (TAC: ST74 55246)
- Baer, S., SKYLIDS, Zomeworks Corp., Albuquerque, N.M.
- Baer, Steve, SOLAR ENERGY, 1973., 30 pp., \$3.00 Zomeworks Corp., P.O. Box 712, Albuquerque, N.M. 87103.
- Baer, Steve, SOLAR HOUSE, Alternative Sources of Energy, No. 10, March 1973, p. 8.
- Baer, Steve, SOL SHOT 1, Wallsheet describing "Solar chimney" collector and Heat storage system, Cookbook fund-Lama Foundation, Corrales, New Mexico, 1973.
- Baer, Stever, SUNSPOTS: COLLECTED FACTS AND SOLAR FICTION, Biotechnic Press, P.O. Box 26091, Albuquerque, NM 1975. Zomeworks Corps., P.O. Box 712, Albuquerque, NN.M. 87103, 1977 \$4.00 (paper)
- Baer, Steve, CORRALES RESIDENCE, p. 200 PSHCC.
- Baer, Steven C. "Freon Actuated Controls." Passive Solar Heating and Cooling Conference and Workshop, Albuquerque, NM, May 18-19, 1976. Proceedings. Washington, D.C.: U.S. Government Printing Office, 1977, p. 282. Available from National Technical Information Service, U. S. Dept. of Commerce, Springfield, VA 22161. 355 p. \$10.50 (paper)
- Baer, Steven C. "Movable Insulation." Passive Solar Heating and Cooling Conference and Workshop, Albuquerque, NM, May 18-19, 1976. Proceedings. Washington, D.C.: U.S. Government Printing Office, 1977, p. 70-72. Available from National Technical Information Service, U.Se. Dept. of Commerce, Springfield, VA 22161. 355 p. \$10.50 (paper)
- Bagshaw, David P. Whitehouse, H.T. A SOUTH-WALL HEATING SYSTEM FOR A COMMERCIAL BUILDING EMPLOYING TILT-UP CONCRETE CONSTRUCTION 2nd NPSC, p. 94.
- Bahadori, Mehdi N., PASSIVE COOLING SYSTEMS IN IRANIAN ARCHITECTURE, Scientific American, Feb. 1978, Vol. 238, No. 2 pp.
- Bahadori, Mehdi, THERMAL PERFORMANCE OF OLD BUILDINGS IN CENTRAL IRAN EMPLOYING AIR TOWERS, PSHCC.

- Bailey, J.A. Mulligan, J.C. Liago, C.K., Guceri, S.I., RESEARCH ON SOLAR ENERGY STORAGE SUBSYSTEMS UTILIZING THE LATENT HEAT OF PHASE CHANGE OF PARAFFIN HYDROCARBONS FOR THE HEATING AND COOLING OF BUILDINGS, Semiannual Report North Carolina State Univ. Dept. of Mechanical and Aerospace Engineering, NTIS, 1975.
- Bainbridge, David A. "Natural Cooling in California." International Solar Energy Society, American Section, Annual Meeting, Denver, CO, August 28-31, 1978. Proceedings, 2. vols. Available from American Section, International Solar Energy Society, Inc., P.O. Box 1416 Kill33n, ex 76541 \$60.00 (paper) v. 1, p. 475-487.
- Baird, C. D., Bagnall, L.O., SOLAR CROP DRYING IN THE SUNSHINE STATE, Univ. of Fla., Gainesville, ASAE Pap, 21 pp., 5 refs. June 22-25, 1975, Pap 75-3004, Publ by ASAE, St. Joseph, MI. (TAC: ST76 60001)
- Bairiev, A.G., Birdlik, P.M. Kozhinov, I.A. HEAT AND MASS EXCHANGE STUDIES UNDER JOINT CONVENTION ON VERTICAL WALLS HEATED BY SOLAR RADIATION. Physiocotechnical Inst. of the AS Turkmen SSR, Appl. of Solar Energy USSR Engl. Transl. Vol. 8 No. 5 1972 pp. 38-43
- Baker, M. Steven and Reynolds, John S. INSOLATION OF SOUTH-FACING TILTED SURFACES: PACIFIC NORTHWEST LOCATIONS, The Center for Environmental Research, School of Architecture and Allied Arts, U. of Oregon, Eugene, OR 94703, (\$2.50) 60 pp., 1975.
- Baker, Steven, Mazria, E. NOTI SOLAR GREENHOUSE: PERFORMANCE AND EVALUATION, 2nd NPSC, p. 190.
- Baker, M. Steven, Reynolds, J.S. OREGON SOLAR INCENTIVE PROGRAM: PASSIVE SYSTEMS, 2nd NPSC, p. 745
- Baker, Steven, PREDICTING THE PERFORMANCE OF PASSIVE SOLAR HEATED BUILDINGS: TWO YEAR STUDY, 2nd NPSC, p. 393.
- Bakker-Arkema, F.W., Haight, J., Roth, M.G., Brooker, D.B., REQUIRED WEATHER DATA FOR SIMULATION OF SOLAR GRAIN DRYING, Michigan State Univ, East Lansing, Paper ASAE, Pap 76-30 20, 12 pp., 14 refs, for Annual Meet, Univ of Nebraska, Lincoln, June 27-30, 1976. (TAC: ST77 28001)
- Balcomb, J.D. A SIMPLE EMPIRICAL METHOD FOR ESTIMATING THE PERFORMANCE OF A PASSIVE SOLAR HEATED BUILDING OF THE THERMAL STORAGE WALL TYPE, 2nd NPSC, Vol. 2, p. 377-389
- Balcomb, J. Douglas, SUMMARY OF THE PASSIVE SOLAR HEATING AND COOLING CONFERENCE, Los Alamos Scientific Laboratory, Los Alamos, New Mexico, 1976.

- Balcomb, J. Douglas, and R. D. McFarland. "A Simple Technique for Estimating the Performance of Passive Solar Heating Systems." v. 2, p. 89-96.
- Balcomb, J. Douglas, PASSIVE SOLAR HEATING OF BUILDINGS, Los Alamos Scientific Laboratory, Los Alamos, New Mexico, 1977.
- Balcomb, J. Douglas, PASSIVE SOLAR SYSTEMS DEVELOPMENT, 1976 Federal Workshop of The National Bureau of Standards, Sept.7, 1976.
- Balcomb, J.D., Grimmer, D.P., Hedstrom, J.C., Kerr, K.C. PACIFIC REGIONAL SOLAR HEATING HANDBOOK, Los Alamos Scientific Lab., N.M., March 1976, Dep NTIS LA-6242-MS; \$7.50.
- Balcomb, J. Douglas and Hedstrom, James C., A SIMPLIFIED METHOD FOR CALCULATING REQUIRED SOLAR COLLECTOR ARRAY SIZE FOR SPACE HEATING, Los Alamos Scientific Laboratory, Los Alamos, N.M. 1976.
- Balcomb J. Douglas, STATE OF THE ART IN PASSIVE SOLAR HEATING AND COOLING, 2nd NPSC, Vol. 1, p. 5.
- Balcomb, J.D., Hedstrom, J.C., McFarland, R.D., SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-PRELIMINARY RESULTS, Univ of Calif., Los Alamos Sci Lab, NM, Sol Energy v.19, n.3, 1977, p. 277-282.
- Balcomb, J.D., Hedstrom, J.C. and McFarland, R.D. SIMULATION AS A DESIGN TOOL, Los Alamos Scientific Laboratory, Los Alamos, New Mexico 1976.
- Balcomb, J.D., Hedstrom, J.C., Moore, S.W., Rogers, B.T., SOLAR HEATING HANDBOOK FOR LOS ALAMOS, Los Alamos Scientific Lab, N.M. 1975 Dep. NTIS \$4.50. (CONF-750257-1)
- Balcomb, J.D., Hedstrom, J.C., and Rogers, B.T., DESIGN CONSIDERATIONS OF AIR-COOLED COLLECTOR/ROCK-BIN STORAGE SOLAR HEATING SYSTEMS, p. 155 PCHCC.
- Balcomb, J.D., McFarland, R.D., SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-THE INFLUENCE OF CLIMATE AND GEOMETRY ON PERFORMANCE, LASL, Presented at the 1977 ISES, American Section Annual Meeting, June 6-10, 1977. (TAC: ST77 31071)
- Balcomb, J.D., McFarland, R.D., Moore, S.W., SIMULATION ANALYSIS OF PASSIVE SOLAR HEATED BUILDINGS-COMPARISON WITH TEST ROOM RESULTS, LASL Presented at the 1977 ISES, American Section Annual Meeting, June 6-10, 1977. (TAC: ST77 31072)

- Balcomb, J. Douglas and Perry, Joseph E. Jr., ASSESSMENT OF SOLAR HEATING AND COOLING TECHNOLOGY, Los Alamos, Scientific Laboratory of the Univ. of Calif., May 1977.
- Balcomb, J. Douglas, PASSIVE TESTING AT LOS ALAMOS, 2nd NPSC p. 602
- Balcomb, J. Douglas, SIMULATION OF PASSIVE SOLAR BUILDINGS, 2nd NPSC, p. 288.
- Balcomb, Sarah. "The Solar Consumer: Living in a Glass House." National Passive Solar Conference, 2nd, University of Pennsylvania, Philadelphia, March 16-18, 1978. Passive Solar: State of the Art. Gray's Ferry Avenue, Philadelphia, PA 19146. \$20.00 (paper)
- Ballantyne, E.R., Airah, M. CLIMATIC DESIGN DATA AND THE EFFECT OF CLIMATE ON INDOOR ENVIRONMENT, CSIRO, Highett, Victoria, Australia, Australia Institute of Refrig Air Cond and Heat, Fed Conf, Brisbane, Queensland, Australia, 14 p., Apr 29-May 3, 1974, Publ by AIRAH, Queensl Div. Brisbane, 1974. (TAC: ST76 50076)
- Banwell, WHITE MOUNTAIN SCHOOL LIVING CENTER, Littleton, New Hampshire, White & Arnold, Inc., 2nd NPSC, p. 173.
- Barber, E.M., and Watson, D., DESIGN CRITERIA FOR SOLAR-HEATED BUILDINGS 1975, 55 pp. \$10.00 669 Boston Post Road, Guilford, Conn.
- Barkmann, H.B. Whole House as Collector. Paper given at conference of American Section, International Solar Energy Society, August, 1974, Fort Collins, CO, 8 p. Available from Interlibrary Loan, Arizona State University, AZ 85281 (ASUSI #3A28)
- Barkmann, H.G. USE OF BUILDING STRUCTURAL COMPONENTS FOR THERMAL STORAGE, in Solar Energy Storage Subsystems for the Heating and Cooling of Buildings; Lilleleht, L.U., Beard, J.T., Iachetta, F.A., F.A., eds.
- Barrett, Robert, HOME WITH SOUTHERN EXPOSURE, EXTR. ARIZONA: 12-29-74 4DA0039 1974 P8-13 TP ASUSI.
- Bartoli, B., Catalanotti, S., Coluzzi, B., Cuomo, V., Silvestrini, V., Troise, G., Monza, E., NATURAL COOLING: RESULTS AND PROBLEMS, Univ. of Naples, Italy Heliotech and Dev., Proc of the Int Conf, Dhahran, Saudi, Arabia, Nov. 2-6, 1975. (TAC: ST77 30095)
- Basiulis, A., VBP HEAT PIPES FOR ENERGY STORAGE, Hughes Aircraft Co., Torrance, CA, Intersoc Energy Convers Eng Conf, 11th, Proc, State Line, NV, Sept 12-17, 1976, Publ by AICHE, New Yrok, NY, V 1:901-904, 3 refs, SAE Pap 769155, 1976. (TAC: ST77 23027)

- Baughn, J., SOLAR ENERGY STORAGE WITHIN THE ABSORPTION CYCLE, Univ. of Calif., Davis; Jackman, A. ASME Pap N74-WA/HT-18 8 p., 15 refs, Nov. 74. (TAC: ST75 42201)
- Baughn, J., Gates, S.D., Rosenfeld, A.H., STUDIES OF EVAPORATIVE AND CONVENTIONAL COOLING OF AN ENERGY CONSERVING CALIFORNIA HOUSE, 2nd NPSC, p. 665.
- Baughn, James W., Dougherty, D. A., EFFECT OF STORAGE HEIGHT ON THE PERFORMANCE OF A NATURAL CIRCULATION (THERMOSYPHON) HOT WATER SYSTEM, 2nd NPSC, p. 637.
- Baughn, James W. and Karen Crowther. "An Experimental Study of Storage Elevation in a Thermosyphon Hot Water System." v. 2, p. 32-35.
- Becker, C. F., Boyd, J.H., SOLAR RADIATION AVAILABILITY ON SURFACES IN UNITED STATES AS AFFECTED BY SEASON, ORIENTATION, LATITUDE, ALTITUDE AND CLOUDINESS, Solar Energy V 1:13-21, N 1; January 1957. (TAC: ST 74 20003)
- Bedford, Thomas, RESEARCH ON HEATING AND VENTILATION IN RELATION TO HUMAN COMFORT, ASHVE Journal, Vol 30, No 12, '58
- Bedrick, J.R., THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, 2nd NPSC, p. 365.
- Beitin, Karl, ALTERNATIVE SOLAR SYSTEMS, 2nd NPSC, vol. 3, p. 857-869
- Bennett, I., CORRELATION OF DAILY INSOLATION WITH DAILY TOTAL SKY COVER, OPAQUE SKY COVER AND PERCENTAGE OF POSSIBLE SUNSHINE, Solar Energy, V 12:391-393, N 3, 1969.
- Bennett, I., MONTHLY MAPS OF MEAN DAILY INSOLATION FOR THE UNITED STATES, Solar Energy, Vol. 9 No. 3, July-Sept. 1965 pp. 145-58.
- Bennett, Robert, THE ROLE OF THE AMERICAN SECTION OF ISES IN PASSIVE DEVELOPMENT, 2nd NPSC, p. 750.
- Bensin, Basil M., ARCTIC GARDEN SOLAR REFLECTORS & RADIATORS FOR NORTHERN CLIMATES, 12A0023 1952 7 PP TP ASUSI.
- Berdahl, Paul, Martin, M., THE RESOURCE FOR RADIATIVE COOLING, 2nd NPSC, p. 684.
- Berlad, A.L., COMFORT-RANGE THERMAL STORAGE, State Univ. of New York, Stony Brook; Lin, H.C., Slazano, F.J., Batey, J., ; Energy, Pergamon Press, Oxford, Vol 2, No 2; June 1977; pp 161-169.

- Berlad, A.L., Jaung, R., Tutu, N., Yeh, Y.J., ENERGY TRANSPORT CONTROL  
p. 326.
- Berman, S.M., Silverstein, S.D., ENERGY CONSERVATION AND WINDOW SYSTEMS,  
A REPORT OF THE SUMMER STUDY ON TECHNICAL ASPECTS OF  
EFFICIENT ENERGY UTILIZATION JULY 1974-APRIL 1975, Am.  
Phys. Soc., New York, Jan. 1975 NTIS \$5.25.
- Bernard, Douglas, Buckley, S., Durand, J. Zambrano, E., TRANSIENT  
ANALYSIS OF THERMIC DIODE SOLAR PANEL, 2nd NPSC, p. 469.
- 2
- Betz, W.B., Kevin, S.R. THE \$2.50/Ft SOLAR COLLECTOR: A DESCRIPTION AND  
COST ANALYSIS, 2nd NPSC, p. 588.
- Bevans, J.T., and Dunkle, R.V., and Gier, J.T., EMISSIVITY OF ICE,  
SNOW, AND FROZEN GROUND, ASRE Journal, Vol 65,  
No 4, 1957.
- Bickle, TECHNICAL NOTE: PASSIVE FREEZE PROTECTION FOR SOLAR COLLEC-  
TORS, Bickle & Associates, Albq., N.M.
- Bickle, L., SOLAR WATER HEATING, p. 29, PSHCC.
- Bienert, W.B., HEAT PIPES APPLIED TO FLAT-PLATE SOLAR COLLECTIONS,  
Maryland Univ. Dept. of Mech. Engin., College Park  
from Proceedings on Solar Collectors for Heating and  
Cooling of Buildings, Sargent, S.L., Ed., Am Soc.  
Mech. Engin, New York, May 1975.
- Bienert, W.B., Trimmer, D.S., Wolf, D.A., APPLICATION OF HEAT PIPES TO  
SOLAR COLLECTORS, Dynatherm Corp. Cockeysville, MD,  
Institute of Electrical and Electronics Engineers, Inc.,  
pp. 1533-1539, 11 refs, 1975, In: Energy 10; Annual  
Intersociety Energy Conversion and Engineering Confer-  
ence, 10th, Newark, DE, August 18-22, 1975; A75-45920,  
23-44, A75-46045, ERDA-NSF-sponsored research.  
(TAC: ST 76 41029) Available from Engineering Societies  
Library, 345 East 47th Street, NY, NY 10017. \$6.10  
plus postage.
- Bienert, Walter, HEAT PIPES IN PASSIVE SOLAR HEATING AND COOLING  
SYSTEMS, p. 300 PSHCC.
- Bier, Jim, VERTICAL SOLAR LOUVERS: A SYSTEM FOR TEMPERING AND STORING  
SOLAR ENERGY, 2nd NPSC, p. 209.

- Blomqvist, Martin, ANIMAL HEAT OFFERS SOURCE FOR HEAT PUMP OPERATION, ASRAE Journal, Vol 58, No 9, 1950.
- Bond, T.E., Godbey, L.C., Zornig, H.F., SOLAR LONG WAVELENGTH, AND PHOTOSYNTHETIC ENERGY TRANSMISSION OF GREENHOUSE COVER MATERIALS, Agricultural Research Service, U.S. Dept. of Agriculture, Rural Housing Research Unit, Clemson, South Carolina.
- Bond, T.E., Neubauer, L.W., Givens, R.L., INFLUENCE OF SLOPE AND ORIENTATION OF EFFECTIVENESS OF LIVESTOCK SHADES, US Dep Agric, Res Sev, Clemson, SC, 18pp; 8 refs; June 22-25, 1975 ASAE Pap, 68th Annual Meet, Univ of Calif, Davis, Pap 75-4047, Publ by ASAE, St. Joseph, MI. (TAC: ST76 50004)
- Borgers, T.R. CORRELATIONS FOR SEVERAL IMPORTANT DESIGN PARAMETERS OF LAMINAR-FREE CONVECTIVE FLOW WITHIN THE TROMBE WALL CHANNEL, 2nd NPSC, p. 570.
- Borzenkova, I.I., ON THE PROBLEM OF THE INFLUENCE OF LOCAL FACTORS ON THE RECEIPT OF RADIATION IN A MOUNTAINOUS DISTRICT. National Lending Library for Science and Technology, Boston Spa, England; Translated into English from Glav. Geof. Obs., Leningrad; No. 209, 67, p. 70-88NLL-M-7487-(5828.fF), 1968, 15 pp., refs. (TAC: ST74 20008)
- Boyle, Joseph, SYSTEMS ANALYSIS FOR SKYLIGHT ENERGY PERFORMANCE: A PROCEDURE FOR THE SYSTEMS ANALYSIS OF THE EFFECT OF SKYLIGHTS ON BUILDING LIGHTING, COOLING AND HEATING SYSTEMS ENERGY REQUIREMENTS, Center for Industrial and Institutional Development, University of New Hampshire Durham, 1975.
- Brace Research Institute, HOW TO MAKE A SOLAR CABINET DRYER FOR AGRICULTURAL PRODUCE, Leaflet No. L-6, McGill Univ. Ste. Anne de Bellevue, Quebec, Canada, 1973.
- Brace Research Institute, HOW TO BUILD A SOLAR WATER HEATER, Leaflet No. L-4, Quebec, Canada, revised edn. Feb. 1973.
- Brace Research Institute, A SURVEY OF SOLAR AGRICULTURAL DRIERS, Brace Research Institute, McGill University, Ste. Anne de Bellevue, Quebec, Canada, 1975. Macdonald College, Ste. Anne de Bellevue, Quebec, Canada 80AICO, 1976, 144 pp \$9.00 (paper).
- Brazil, J., Magee, J., DESIGN AND COST TRADEOFFS IN HEAVILY INSULATED SOLAR HEATED AND COOLED HOMES, 15 p. Avail: 18340 Black Road, Los Gatos, CA. (TAC: ST77 33005)

- Brick Institute of America, HEAT GAIN, BIA Technical Notes on Brick Construction, Apr/May 1974, McLean, VA 22101
- Brick Institute of America, HEAT TRANSMISSION COEFFICIENTS OF BRICK MASONRY WALLS; 1750 Old Meadow Rd., McLean, VA 22101; BIA Technical Notes on Brick Construction, Aug/Sept. 1974
- Brick Institute of America, THERMAL TRANSMISSION CORRECTIONS FOR DYNAMIC CONDITIONS-M FACTOR; BIA Technical Notes on Brick Construction; Mar.-Apr. 1977; Brick Institute of America, McLean, VA 22101.
- Brockenbrough, Thomas, Faunce, S., Sliwowski, J., SOLAR ONE-ACTIVE AND PASSIVE CONTRIBUTIONS TO SPACE HEATING, 2nd NPSC, p. 621.
- Brooks, F.A., USE OF SOLAR ENERGY FOR HEATING WATER, Publication 3557, Smithsonian Institution, Washington, D.C. 1939.
- Brownlos, Douglas, Price, T.L., THE EDDY ADDITION: A NEW ENGLAND HYBRID, III 2nd NPSC, p. III.
- Bryan, W.L., Seigel, L.G. NATURAL CONNECTION COOLING AND DEHUMIDIFYING: ASHVE TRANSACTIONS, Vol. 64, 1958; ASHVE JOURNAL, Vol. 29, No. 12, 1957.
- Buchberg, H., Catton, I., Edwards, D.K., NATURAL CONVECTION IN ENCLOSED SPACES--A REVIEW OF APPLICATION TO SOLAR ENERGY COLLECTOR, University of California, Los Angeles, CA, J Heat Transfer Trans ASME, V98:182-188. N2, Paper No. 74-WA/HT-12, May 1976. (TAC: ST76 40062).
- Buchberg, H., and Roulet, J.R., SIMULATION AND OPTIMIZATION OF SOLAR COLLECTION AND STORAGE FOR HOUSE HEATING, Solar Energy, Vol 12; 1968; pp. 31-50.
- Buckley, S., APPLICATION OF THERMIC DIODE SOLAR PANELS, MIT, Cambridge, MA, UAH Press, Huntsville, AL, pp. 249-265, 11 refs, 1975, In: Application of Solar Energy; Proceedings of the First Southeastern Conference, Huntsville, AL, Mar 24-26, 1975, A76-31376 14-44, A76-31392, Research supported by the Cabot Solar Energy Fund. (TAC: ST76 40063)
- Buckley, S., COOLING WITH THERMAL DIODE PANELS, Use of Solar Energy for the Cooling of Buildings, De Winter, F., Ed., Atlas Corp, Santa Clara, CA, July, 1976.
- Buckley, S., STORAGE ASPECTS OF THERMIC DIODE SOLAR PANELS, MIT, ASHRAE, NY, 1975.
- Buckley, S., THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, MIT Dept of Mech Engr, NTIS, 2 Apr, 1976.

- Buckley, S., THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, MIT Dept of Mech Engr, NTIS, 2 Apr, 1976.
- Buckley, S., THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, MIT, Cambridge, MA, NSF/RANN/SE-GI-43897/FR/76/3, NSF/RA-760076, RP-253 345/3WE, PC\$4.50 MF\$2.25.  
(TAC: ST76 50077).
- Buckley, S., THERMIC CONTROLS TO REGULATE SOLAR HEAT FLUX INTO BUILDINGS, SEMIANNUAL PROGRESS REPORT, Jan. 1-June 30, 1975, MIT, Dept of Mech Engr, Aug 25, 1975, NTIS, \$4.00.
- Buckley, Shawn. "Thermic Diode Solar Panels: Passive and Modular." Passive Solar Heating and Cooling Conference and Workshops, Albuquerque, NM, May 18-19, 1976. Proceedings. Washington, D.C.: U.S. Government Printing Office, 1977, p. 293-299. Available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, VA, 22161. 355 pp. \$10.50 (paper)
- Buckley, Shawn, MARKET ANALYSIS OF THE THERMIC DIODE SOLAR PANEL, 2nd NPSC, p. 785.
- Buckley, Shawn, Khandani, H., Manzano, J., OTHER ASPECTS OF THERMIC DIODE SOLAR PANELS: COOLING AND TEMPERATURE CONTROL, 2nd NPSC, p. 271.
- Buckley, Shawn, TRANSIENT ANALYSIS OF THERMIC DIODE SOLAR PANEL, 2nd NPSC, p. 469.
- Buckley, Shawn, THERMIC DIODE SOLAR PANELS: A BRIEF SUMMARY, MIT, Cambridge, MA, Sharing the Sun; Sol Technol in the Seventies, Jt Conf of the Int Sol Energy Soc Am Sect and Sol Energy Soc of Can. Inc., Winnipeg, Manito, Aug 15-20, 1976, Vol 2, pp 1-23.
- Buelow, F.H., DRYING CROPS WITH SOLAR HEATED AIR, REPR:MI AG B:11-58; 12AB0018; 1958; pp. 421-429; TP ASUSI.
- Buelow, Frederick H., DRYING CROPS WITH SOLAR HEATED AIR, 12AB0005 1961; 11P. TP ASUSI.
- Buffington, Dennis E., HEAT GAIN BY CONDUCTION THROUGH EXTERIOR WALLS AND ROOFS--TRANSMISSION MATRIX METHOD, ASHRAE Transaction, Vol. 81, Pt. 2, 1975.
- Bullen, D.C., SOLAR DESIGN, Solar Radiation Considerations in Building Planning and Design Natl. Academy of Sciences, Washington, DC: 1976.

- Burse, T., Green., G.H., COMBINED THERMAL AND AIR-LEAKAGE PERFORMANCE OF DOUBLE WINDOWS, ASHRAE Transaction, Vol. 79, Pt. 2, 1973.
- Butler, Barry L., COMMON SENSE APPLICATIONS OF SOLAR ENERGY IN THE HOME, Sandia Labs, Albq., NM, Jan 1977, p. 10.
- Butler, J.L., Troeger, J.M., APPLICATION OF SOLAR ENERGY FOR PEANUT DRYING AND CURING, USDA, Agric Res Serv, Tifton, GA, Pap ASAE, Pap 75-3503, 13 pp., 9 refs, for Annual Meet, Chicago, IL, Dec 15-18, 1975. (TAC: ST77 28003)
- Butler, Lee Porter, USING NATURAL ENERGY IN ARCHITECTURAL DESIGN, 2nd NPSC, p. 169.
- Buyco, E.H., Namkoong, D., CORRELATION OF TOTAL, DIFFUSE, AND DIRECT SOLAR RADIATION, NASA Lewis, NASA-TM-X-3422, 25 pp. Mar 1977, E-8867, N77019714/3WE. (TAC: ST77 37025). Available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, VA, 22161, \$3.50 (paper).
- Calthorpe, Peter, THE FARALLONES INSTITUTE STUDY OF FIVE PASSIVE AND HYBRID SPACE HEATING SYSTEMS, 2nd NPSC, Vol 2, pp. 298-304.
- Calthorpe, Peter, ROCK BED STORAGE UNDER RADIANT SLAB, 2nd NPSC, p. 617.
- Camia, F.M., THE CHOICE OF MATERIALS FOR HEAT CONDUCTION AND STORAGE IN SOLAR TECHNOLOGY, Group ABC, Ecole d'Architecture de Marseille-Luminy. CNRS, Paris 1976.
- Canham, A.E., AUTOMATIC GLASSHOUSE SHADING, Solar Energy, V 8:9, N 1, 1964. (TAC: ST74 47004)
- Carroll, A.W., REDUCING HEAT GAIN THROUGH ROOF, Air Conditioning, Heating & Vent., V 53:61-64, N 7, J1 56. (TAC: ST74 50010)
- Caryl, C.R. and Leeper, G.A., MEASUREMENT OF SOLAR RADIATION IN PHOENIX, Solar Energy, V 3:59, N 1, Jan 1959 (TAC: ST74 24002)
- Catani, M.J., and Goodwin, S.E., THERMAL INERTIA-THE NEGLECTED CONCEPT, The Construction Specifier, May 1977.
- Catani, Mario J., and Goodwin, Stanley E., HEAVY BUILDING ENVELOPES AND DYNAMIC THERMAL RESPONSE, ACI Journal, Feb 1976.
- Catania, Peter J., THE SASKATCHEWAN ENERGY CONSERVATION HOUSE, Faculty of Engineering, Univ of Regina: Grolle, Ir. E. Hendrik Grolle Architect and Engineer Limited, Regina, Saskatchewan; Aug 1977.

- Chahroudi, Day, BUILDINGS AS ORGANISMS, 2nd NPSC, p. 276.
- Chahroudi, Day, SOLAR MEMBRANES, Building Research Institute, Washington, D.C., 1973.
- Chahroudi, Day, THE SELF-HEATING BUILDING, 2nd NPSC, p. 197.
- Chahroudi, Day, SUSPENSION MEDIA FOR HEAT STORAGE MATERIALS, Zomeworks Corporation, Albuquerque, NM.
- Chahroudi, Day, VARIABLE TRANSMISSION SOLAR MEMBRANE, 2nd NPSC, Vol 2, pp. 343-348.
- Chapman, H.L., ROCK PILE THERMAL STORAGE HEATING AND COOLING SYSTEM, Commonwealth Scientific and Industrial Res Organization, Highett, Victoria, Australia, Int. Solar Energy Soc. Conf., Mar 2-6, '70, Prepr. Pap. N 6/54, 7 p., 4 refs. (TAC: ST74 42005).
- Chauhan, R.S., Kadambi, V., PERFORMANCE OF A COLLECTOR-CUM-STORAGE TYPE OF SOLAR WATER HEATER, Punjab Agriculture University, Ludhiana, India, Solar Energy, V 18:327-335, N4, 10 refs, 1976, International Solar Energy Society, International Solar Energy Congress and Exposition, University of California, Los Angeles, CA, July 28-Aug 1, 1975, A76-43182. (TAC: ST76 40096)
- Chauhan, Rajinder Singh, TESTING OF A COLLECTOR-CUM-STORAGE TYPE OF SOLAR WATER HEATER, Mechanical Engineering Department, Punjab Agricultural University; Ludhiana, Punjab, India.
- Chiapale, J.P., NUMERICAL MODEL FOR ESTIMATING THE MODIFICATION OF HEAT BUDGET INTRODUCED BY HEDGES, INRA Stn de Bioclimatol d'Avignon, Montfavet, France, Transfer Processes in the Plant Environ, Dubrovnik, Yugoslavia, Pap 31, p. 457-466, 9 refs, Aug 26-30, 1974, Publ by Scripta Book Co., Div of Hemisphere Publ Corp Adv in Therman Eng 3, Washington, DC, 1975, Semin on Heat and Mass Transfer in the Environ of Veg: Heat and Mass Transfer in the Biosphere, Pt 1. (TAC: ST76 20001)
- Christensen, G., Brown, W.P., Wilson, A.G., THERMAL PERFORMANCE OF IDEALIZED DOUBLE WINDOWS, UNVENTED, ASHRAE Transactions, Vol. 70, 1964.
- Clark, A.F., HORIZONTAL COLLECTOR WITH A MIRROR ON THE NORTH SIDE, California Univ., Lawrence Livermore Lab., Livermore, CA, 6 p., Presented at New England Solar Energy Conf., Amherst, MA, June 24, 1976, UCRL-77906, CONF-760657-2, W-7405-ENG-48, N77-19639, Avail: NTIS HC A02/MF A01. (SAC: ST77 26005).

- Clark A.F., INDUSTRIAL PROCESS HEAT FROM SHALLOW SOLAR PONDS, Calif-  
ornia Univ., Livermore, CA, 8 pp., 1976, CONF-760423-1,  
UCRL-77801, PC \$3.50. (TAC: ST76 60036)
- Clark, A.F. SOLAR PONDS EXTENDED, Lawrence Livermore Laboratory, Univ.  
of Calif, Livermore, CA, July 27, 1973. (TAC: ST75 46011)
- Clark, Gene, THE ESTIMATION OF ATMOSPHERIC RADIATION FOR CLEAR AND  
CLOUDY SKIES, 2nd NPSC, p. 675.
- Clarkson, C.W., Lilly, M.L., SINGLE AND MULTIPLE GLASS GLAZING MEDIA  
IN PASSIVE SOLAR ENERGY CONSTRUCTION, 2nd NPSC, p. 340.
- Clegg, Peter, NEW LOW-COST SOURCES OF ENERGY FOR THE HOME, Garden  
Way Publishing, Charlotte, VT, 1975.
- Clinton, J.R., EFFECTS OF CONTROLS ON WATER WALL PERFORMANCE, 2nd  
NPSC, p. 555.
- Close, D.J., PERFORMANCE OF SOLAR WATER HEATERS WITH NATURAL  
CIRCULATION, REPR:SOL EN: 1-62 13A0031 1962 Vol.  
6 No. 1, pp. 33-40 TP, ASUSI.
- Cobble, M.H., TEMPERATURE FIELDS OF SOLIDS HEATED BY SOLAR CONCENTRA-  
TORS, Solar Energy, Vol. 7, No. 3, 1963.
- Cohen, A. Bar and Rambach, D., NOCTURNAL WATER COOLING BY SKYWARD  
RADIATION IN ISRAEL, Mech of Engrn, Ben Gurion Univ.  
of the Negev, Beer Sheva, Israel, 73901, 298 pp.
- Cole, W. James, APPROPRIATE SYSTEMS FOR HEATING BUILDINGS: THE CASE  
FOR PASSIVE SOLAR WITH MOVABLE INSULATION, 2nd NPSC,  
p. 795.
- Conference on Solar Energy for Heating Greenhouses and Greenhouse-  
Residential Combinations, Cleveland, OH, March 20-23,  
1977. Proceedings. Washington, D.C.: U.S. Dept. of  
Energy, 1977. Available from National Technical  
Information Service, U.S. Dept. of Commerce, Spring-  
field, VA 22161. 344 pp. \$12.00 (paper)
- Converse, A.O., ACTIVE VERSUS PASSIVE SYSTEMS--A DESIGN RATIONAL FOR  
THE SELECTION OF PASSIVE SYSTEMS BASED ON A COMPARATIVE  
STUDY OF EFFICIENCY, CAPACITY, ECONOMICS AND THERMAL  
NETWORK ANALYSIS, 2nd NPSC, p. 828.
- Converse, A.O., Holdridge, T.B., Taft, D.C., PASSIVE VERSUS ACTIVE  
COLLECTOR SYSTEMS: A COMPARATIVE STUDY OF EFFICIENCY,  
CAPACITY, AND ECONOMICS, 2nd NPSC, p. 790.
- Converse, Alvin O., Kachadorian, J., GREEN MOUNTAIN HOMES HYBRID  
SYSTEMS, 2nd NPSC, p. 261.

- Cook, Jeffrey, INDIGENOUS SOLUTIONS TO ARID CLIMATES, v. 2, pp. 259-262.
- Cook, Jeffrey, DESIGN STRATEGIES FOR SOLAR CONTROL, p. 63 PSHCC.
- Cook, Jeffrey, chairman, EDUCATION WORKSHOP, p. 331; PSHCC.
- Cook, Jeffrey, PASSIVE EDUCATION FOR ACTIVE PROFESSIONALS, 2nd NPSC, Vol. 3, pp. 716-719.
- Cook, Jeffrey, SOLAR ARCHITECTURE IN ARIZONA, p. 79. PSHCC
- Cook, Jeffrey, and Wade, Herb, PASSIVE SOLAR HEATED HOUSE: DESIGN AND CONSTRUCTION, Ariz State Univ, Tempe, Sharing the Sun; Solar Technology in the Seventies, Jt Conf of the Int Sol Energy Soc. Am Sect and Sol Energy Soc of Can, Inc Winnipeg, Manit, Aug 15-20, 1976, Publ by Int Sol Energy Soc. Am Sect. Cape Cape Canaveral, Fla., 1976 v 4 p 8-14.
- Coonley, Douglas, and Anderson, Bruce, AN ECOLOGIC SOLAR HEATED AND COOLED HOME, Total Environment Action, Church Hill, Harrisville, N.H. 03450.
- Cooper, K.W., Tree, D.R., A RE-EVALUATION OF THE AVERAGE CONVECTION COEFFICIENT FOR FLOW PAST A WALL, ASHRAE Transactions, Vol. 79, Pt. 1, 1973.
- Cooper, Polly, AN OFFICE BUILDING FOR AN ERA OF TRANSITIONS: APPLICATION OF THE SKYTHERM SYSTEM OF PASSIVE HEATING AND COOLING TO A MODERATE DENSITY OFFICE BUILDING, 2nd NPSC, p. 223.
- Cooper, Polly, A PASSIVE SOLAR HOUSE BASED ON BALANCED DIRECT GAIN HEATING AND NIGHT VENTILATION COOLING, 2nd NPSC, p. 133.
- Corbett, Bob, PERFORMANCE OF PASSIVE TEST UNITS IN BUTTE, MONTANA, 2nd NPSC, p. 591.
- Corliss, J.M., Jakob, F.E., Klausling, T.A., Liu, C.Y., Stickford, G.H., AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, 2nd NPSC, p. 106.
- Corson, Bruce A., AN ENERGY EFFICIENT OFFICE BUILDING FOR THE STATE OF CALIFORNIA, 2nd NPSC, p. 233.
- Cottingham, J.G., ATTIC CONCENTRATOR TYPE SOLAR ENERGY COLLECTOR, Brookhaven National Lab., Upton, NY, 12 pp., Feb 4, 1976, BNL-50493, PC \$3.50/MF \$3.00. (TAC: ST77 33007; ST77 21005)

- Coulson, K.L., ON THE SOLAR RADIATION FIELD IN A POLLUTED ATMOSPHERE, Univ. California, Davis, USA, J. Quant, Spectrosc. & Radiat. Transfer (GB), V 11:739-55 N6, June 1971, 35 refs. (TAC: ST74 23008)
- Council for Scientific and Industrial Research, SOLAR WATER HEATING IN SOUTH AFRICA, Pretoria, South Africa, National Building Research Institute Bulletin 44, CSIR Research Report 248, P. VII, 79, '67, 48 Figures, 31 Tables. Also Solar Energy, V 12:395-397 '69. (TAC: ST74 40214)
- Cox, ARCHITECTURAL PLANNING AND DESIGN ANALYSIS OF ENERGY CONSERVATION IN HOUSING THROUGH THERMAL, 4DA0037, p. 62; 1972 TP ASUSI.
- Cramer, R.D., Neubauer, L.W., SOLAR RADIANT GAINS THROUGH DIRECTIONAL GLASS EXPOSURE, Heating, Piping & Air Conditioning, V 30:155-62, N 11, Nov. 1958. (TAC: ST74 50403)
- Cramer, R.D., Neubauer, L.W., SUMMER HEAT CONTROL FOR SMALL HOMES, REPR:ASAE TRANS:v2:l 4CF002 1958 p102,3,5, TP ASUSI.
- Cramer, Richard D., Neubauer, L.W., DIURNAL RADIANT EXCHANGER WITH THE SKY DOME, Solar Energy, Vol. 9, No. 2, 1965.
- Crites, Ray D., Hull, J.R., PASSIVE SOLAR RESIDENCE FOR THE FARM OF TODAY AND TOMORROW, 2nd NPSC, p. 266.
- Crowther, Richard, PASSIVE ENERGY SYSTEMS, p. 339 PSHCC.
- Crowther, Richard L., SOLAR ENERGY: THE ARCHITECTURAL IMPERATIVE, ASHRAE Journal, Vol. 17, No. 11, 1975.
- Cunniff, C.V., SOLAR RADIATION ON WALLS FACING EAST AND WEST, Air Conditioning, Heating & Vent., V 55:82-88 N 10, Oct 1958. (TAC: ST74 24004)
- Cunniff, C.V., SOLAR RADIATION ON WALLS FACING NORTH AND SOUTH, Air Conditioning, Heating & Vent., V 56:64-67, N 8, Aug 1959. (TAC: ST74 24005)
- Cunningham, R., DESIGN CONSIDERATIONS FOR SOLAR HEATING, Heat Vent Eng & Air Cond V 49:9-12, N578, 9 refs, Sept 1975. (TAC: ST76 55011)

- Cupinskas, E.L., SIZING AND APPLICATION OF THERMAL STORAGE SYSTEMS, ASHRAE Journal, Vol. 17, No. 7, 1965.
- Cutchaw, J.M., SOLAR ENERGY COLLECTOR PANEL, US Patent 3,923,038, Dec. 2, 1975.
- Dahl, Jonathan, MARKET ANALYSIS OF THE THERMIC DIODE SOLAR PANEL, 2nd NPSC, p. 785.
- Daniels, D.G., FLUID DYNAMICS OF SELECTIVE WITHDRAWAL IN SOLAR PONDS, Solar Energy Consultant, Oakland, Ca. from 1975 International Solar Energy Congress and Exposition, ISES, Rockville, MD. 1975.
- Daniels, Farrington, DIRECT USE OF THE SUN'S ENERGY, Ballantine Books, Inc., Westminster, MD, 21157, 1974, 271 pp., \$1.94 (paper); Yale University Press, 92A Yale Station, New Haven, CT, 06520, 1964, 374 pp., \$15.00 (hard).
- Davidoff, Peter, Hirshberg, A., Narayanan, P., PRELIMINARY ECONOMIC EVALUATION OF GENERIC PASSIVE SOLAR ENERGY SYSTEM/BUILDING APPLICATIONS, 2nd NPSC, vol. 3, pp. 699-703.
- Davies, M., THERMAL MODEL FOR A SOLAR HEATED BUILDING, Liverpool Univ England; Publ by Pergamon Press; Elmsford, NY, 3 refs, 1975, Energy and Housing Symp, Proc, Open Univ, Milton Keynes, England Oct 31, 1974. (TAC: ST76 51031)
- Davies, M.G., THE CONTRIBUTION OF SOLAR GAIN TO SPACE HEATING, (Liverpool University, Liverpool, England), Solar Energy, V 18:361-367, N4, 12 refs, 1976, Additional info: International Solar Energy Congress and Exposition, University of California, Los Angeles, J1 28-Aug 1, 1975, Research supported by the Ministry of Public Buildings and Works, A76-43186. (TAC: ST76 55147)
- Davies, M.G., SOLAR TECHNOLOGY OF ST. GEORGE'S SCHOOL, WALLASEY, Univ of Liverpool, Northeast London Polytechnic, Feb 1976, Solar Energy for Buildings, 4:749:300.
- Davies, M.G., THE THERMAL ADMITTANCE OF LAYERED WALLS, Building Science, Vol. 8, London, England, 1973, pp. 207-220.
- Davis, A.J. and Schubert, R.P., ALTERNATIVE NATURAL ENERGY SOURCES IN BUILDING DESIGN, Passive Energy Systems, Blacksburg, VA; Van Nostrand Reinhold Co., New York; 1977.
- Davis, Leslie, Yanda, W., Yanda, S., THE CONSTRUCTION OF A WORKSHOP: FIELD EXPERIENCE IN THE EDUCATION OF PASSIVE SOLAR SYSTEMS, 2nd NPSC, p. 720.

- Davis, Paul, LIVING IN A SOLAR HOUSE, p. 149, PSHCC.
- Davis, Paul and Mary, DRYING CROPS WITH SOLAR ENERGY, 12AB0028, p14, ASUSI.
- Davis, Paul and Mary, ELEMENTS OF SOLAR DESIGN, 4DA0036 1974 1P ASUSI.
- Davis, W.Douglas, THE CLIMAX-CUSP SOLAR WATER HEATER, 2nd NPSC, p. 647.
- Davison, R.R., STORING SUNLIGHT UNDERGROUND, THE SOLATERRE SYSTEM, Harris, W.B., Martin, J.H., Chem. Technology Vol. 5 No. 12, Dec. 1975.
- Debremaecker, J. Cl., COMPUTATION OF ABSORBER AREA, Solar Energy, Vol 2, N 1, '58. (TAC: ST74 10504)
- Deering, Brooks, EFFECT OF PLANT MATERIAL UPON MICROCLIMATE OF HOUSE AND GARDEN, REPR:AHM:7-54; 4D10007; 1954; pp. 162-167; TP ASUSI.
- DeKorne, Jim, GREENHOUSE AND AQUACULTURE, p. 55, PSHCC.
- DeKorne, James B., THE SURVIVAL GREENHOUSE; AN ECO-SYSTEM APPROACH TO HOME FOOD PRODUCTION, Walden Foundation, El Rito, NM 1975; 2nd edition, Peace Press, 3828 Willat, Culver City, CA 90230, 1978, 165 pp., \$7.95 (paper).
- Delano, R., CONTROL OF CONDENSE AND LIGHT IN GREENHOUSES AND SOLAR STILL, Solar Sunstill, Inc., Setauket, NY, Raseman, C.J. Plast in Argi and Hortic Conf, Proc, Wye Coll, Kent, Engl, 10 pp, 7 refs, Mar 1974. Publ by Plast Inst, London, Engl, 1974. (TAC: ST74 47001)
- Deminet, C., SOLAR ENERGY APPLICATIONS FOR HEAT-ABSORBING GLASS, Boeing Aerospace Co., Seattle, Wash. in International Solar Energy Society, Annual Meeting, Orlando, Fla., June 6-10, 1977, Proceedings, Sections 1-13. A78-11212 01-44 Cape Canaveral, Fla., International Solar Energy Society, 1977, pp 12-6 to 12-8. (NASA 78A11273)
- Derby, R.W., CALCULATING THE DAILY VARIATIONS OF SOLAR ENERGY INCIDENT ON FLAT PLATES, Oak Ridge National Lab., Tenn. ORNL-TM-4564, 29 p. refs, May 1974, Contract W-7405-eng-26. (TAC: ST75 20000)
- DeWinter, Francis, SOLAR ENERGY HAPPENINGS IN OTHER COUNTRIES, p 83, PSHCC.

- Dickinson, W.C., Clark, A.F., Iantuono, A., Parsons, R.E., Chakedis, D.V., LLL-SOHIO SOLAR PROCESS HEAT PROJECT, Report No. 3, 111 Solar Energy Group, California Univ., Livermore, CA, 29 pp, Apr 1976, UCID-16630-3, PC\$4.00/MF\$3.00. (TAC: ST76 60037)
- Dickinson, W.C., Clark, Day, Mouters, SHALLOW SOLAR POND ENERGY CONVERSION SYSTEM, ISESU 8C0050 1974, 16P TP ASUSI.
- Dietz, A.G.H., Czapek, E.L., SOLAR HEATING OF HOUSES BY VERTICAL SOUTH WALL STORAGE PANELS, Heat., Piping Air Cond. Vol. 22, No. 3, Mar. 1950 pp. 118-125.
- Dietz, Albert, Czapek, E.L., M.I.T. SOLAR HOUSE 2: SOUTH WALL COLLECTION, STORAGE, AND HEATING, from Passive Solar Heating and Cooling, Keller, M.H., Ed.
- Dougherty, Douglas A., EFFECT OF STORAGE HEIGHT ON THE PERFORMANCE OF A NATURAL CIRCULATION (THERMOSYPHON) HOT WATER SYSTEM, 2nd NPSC, p. 637.
- Dresser, Peter van, THE GROWTH OF FOLK SOLAR ARCHITECTURE IN NEW MEXICO, 2nd NPSC, p. 781.
- Dubin, F., PASSIVE SOLAR HEATING AND COOLING DEPARTMENT OF JUSTICE OFFICE BUILDING, 2nd NPSC, p. 240.
- DuBois, E.F., PHYSIOLOGICAL ASPECTS OF HEATING AND VENTILATING, ASHVE Journal Vol 23, No. 4, '51.
- Ducar, G.J., Engholm, G., NATURAL VENTILATION OF UNDERGROUND FALLOUT SHELTERS, ASHRAE Transactions, Vol. 71, Pt. 1, 1965; ASHRAE Journal, Vol. 7, No. 8, 1965.
- Ducas, William, THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES FOR PASSIVE BUILDINGS, 2nd NPSC, p. 411.
- Dudley, James Co., THERMAL ENERGY SOURCE UNIT FOR AIR CONDITIONING SYSTEMS USING PHASE CHANGE MATERIAL, Report No. NSF/RANN/SE/G127976/TR72, 8, National Center for Energy Management and Power, University of Pennsylvania, August 1972.
- Duffie, John A., and Beckman, William A., SOLAR ENERGY THERMAL PROCESSES. John Wiley & Sons Inc., 605 Third Avenue, New York, NY 10016, 1974, 386 pp., \$19.00 (hard).

- Duffie, J.A., Löff, G.O.G., and Salam, E.M.A., SOLAR HEAT EXCHANGERS, Chem. Eng. Progr. Vol. 56 No. 7, July 1960, p. 63.
- Duffie, J.A., Smith C., and Löff, G.O.G., ANALYSIS OF WORLD WIDE DISTRIBUTION OF SOLAR RADIATION, Bulletin 21, Engineering Experiment Station, University of Wisconsin, Madison, 1964.
- Dumortier, Jean, STUDY OF SOLAR RADIATION AS A CONTRIBUTION TO DOMESTIC HEATING, Flamme et Thermique, V 10:11-39, N 108, Sept 57 and V 10:13-36, N 109, Oct 57. (TAC: ST74 50003)
- Duncan, G.A., Loewer, O.J., Jr., Colliver, D.G., SIMULATION OF SOLAR ENERGY AVAILABILITY, UTILIZATION, AND STORAGE IN GREENHOUSES, Univ of Kentucky, Lexington, Pap ASAE, 43 pp., N76-4010, 32 refs, for Annual Meeting, Univ of Nebraska, Lincoln, June 27-30, 1976. (TAC: ST77 27001) Available from ASAE, \$3.50.
- Duncan, Ian, TESTING AND SIMULATION OF PASSIVE SOLAR SYSTEMS, 2nd NPSC, p. 581.
- Durand, James, TRANSIENT ANALYSIS OF THERMIC DIODE SOLAR PANEL, 2nd NPSC, p. 469.
- Eagen, M. David, CONCEPTS IN THERMAL COMFORT, Englewood Cliffs, NJ: Prentice-Hall, 1975, Available from Publications Fulfillment, American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006, 224 pp., \$11.95 (hard).
- Eakin, Everett, HEATS BARN & MILK WITH SOLAR HEAT, REPR: MD:12-10-53 12AA0005; 1953 1P TP ASUSI.
- Eakin, W. Everett, SOLAR HEAT HELPS KEEP DAIRY BARNs WARM & DRY, REPR:MD:2-25-54 12AA0006 1954 3pp. TP ASUSI.
- Eastman, G.Y., THE HEAT PIPE: SPACE SPINOFF FOR HEAT TRANSFER, Heating, Piping and Air-Conditioning, Vol. 41 No. 12, Dec 1969.
- Ebeling, L.L., Redell, D.L., ENERGY (HOT WATER) STORAGE IN GROUND-WATER AQUIFERS, Am. Society of Auto. Engineers, Chicago, 1976.
- Eccli, Eugene E., ed., LOW COST ENERGY EFFICIENT SHELTER FOR THE OWNER AND BUILDER, Rodale Press, Inc., 33 East Main St., Emmaus, PA 18049, 1976, 408 pp, \$10.95 (hard), \$5.95 (paper).
- Eccli, Sandy, LOW ENERGY UNDERGROUND HOUSE, ALT SE:02/74 P30-31 TP ASUSI.

- Eckert, E.R.G., GROUND USED AS ENERGY SOURCE, ENERGY SINK, OR FOR ENERGY STORAGE, Univ of Minnesota, Minneapolis, Energy, Pergamon Press, Oxford, V 1:315-323, N3, 4 refs, Sept 1976. (TAC: ST77 23029)
- Edelson, Ed, HEAT PIPES-NEW WAYS TO TRANSFER ENERGY, POP SCI: 06/74; PP 102-103, 139 JA ASUSI.
- Edenburn, M.W., and Wessling, F.C. Jr., A SOLAR HEATING SYSTEM FOR A NORTHERN NEW MEXICO ADOBE HOUSE, The American Society of Mechanical Engineers, 1975; Houston, 1975, ASME 75-WA/Sol 11.
- Edlin, F.E., and Willauer, D.E., PLASTIC FILMS FOR SOLAR ENERGY APPLICATIONS, UN: Rome; E35-S33.
- Edmondson, W.B., MEANS TO HARNESS AND STORE SOLAR ENERGY, 16C0047; 10 pp; TP ASUSI.
- E<sup>3</sup> Education and Experience in Engineering, SOLAR COLLECTOR STORAGE PANEL, 2nd NPSC, p. 481.
- Egan, M.D., CONCEPTS IN THERMAL COMFORT, Prentice-Hall, Englewood Cliffs, N.J., 1975.
- Elfring, David, Lillywhite, M., Massie, C., EVOLUTION OF THE COMMERCIAL SOLAR RELIANT GREENHOUSE IN THE ROCKY MOUNTAIN REGION, 2nd NPSC, p. 710.
- Elmer, Dr. Donald B., Hourmanesh, M., Hourmanesh, R., EARTH AIR HEAT EXCHANGER SYSTEM, 2nd NPSC, p. 146.
- Emery, A.F., THE EVALUATION OF PASSIVELY-CONTROLLED, ALTERNATE BUILDING DESIGNS BY THE THERMAL SIMULATION COMPUTER PROGRAM UWENSOL, 2nd NPSC, p. 357.
- Eng. News-Record, HEAT STORED UNDER BUILDING CUTS OPERATING COSTS, Vol. 192 No. 11, 1974, p. 20.
- Etherington, T.L., A DYNAMIC HEAT STORAGE SYSTEM, ASHVE Transaction, Vol 64, 1958 ASHVE Journal Vol 29, No 12, '57.
- Everetts, John, Jr., A HISTORY OF ASHRAE COMFORT RESEARCH, ASHRAE Journal, Vol. 17, No. 10, Oct 1975, p. 55.
- Ewing, W.B., Yellott, J.I., ENERGY CONSERVATION THROUGH THE USE OF EXTERIOR SHADING OF FENESTRATION, Sunscreen Co., Fajardo, Puerto Rico, ASHRAE Trans, V 82:703-733, pt 1, 1976, Proc of the ASHRAE Semiannu Meeting, Dallas, TX Feb 1-5, 1976. (TAC: ST77 33031)

- Fan, J.C.C., Bachner, F.J., TRANSPARENT HEAT MIRRORS FOR SOLAR-ENERGY APPLICATIONS, MIT, Lexington, MA, Applied Optics, V 15:1012-1017, 8 refs, Apr 1976, USAF-sponsored research, AD-A027-105/6WE, A76-26719. (TAC: ST76 50082).
- Fanger, P.O., THERMAL COMFORT: ANALYSIS AND APPLICATION IN ENVIRONMENTAL ENGINEERING, McGraw-Hill, Hightstown, NJ 244pp., \$18.50, 1972.
- Farber, E.A., THE USE OF SOLAR ENERGY FOR HEATING WATER, UN: Rome E 35-S1.
- Faunce, Stuart F., Guceri, S., Meaklin, J.D., Sliwowski, J.H., APPLICATION OF PHASE CHANGE MATERIALS IN A PASSIVE SOLAR SYSTEM, 2nd NPSC, p. 475.
- Faunce, Stuart, SOLAR ONE-ACTIVE AND PASSIVE CONTRIBUTIONS TO SPACE HEATING, 2nd NPSC, p. 621.
- Feingold, Adolph, LEGISLATIVE MEASURES IN SUPPORT OF SOLAR ENERGY University of Ottawa, pres. at the Solar Energy Update '77, 3rd Annual Gen. Mtg. and Conf., Solar Energy Society of Canada, Inc., August 22-24, 1977.
- Finholm, David, ARCHITECTURAL PROBLEMS AND SOLUTIONS TO NATURAL INTEGRATED SYSTEMS, 2nd NPSC, p. 102.
- Fisher, R., Yanda, W., SOLAR GREENHOUSE, John Muir Publications, Box 613, Santa Fe, NM 87501, 1976, \$5.50.
- Fisher, R., Yanda, W., THE FOOD AND HEAT PRODUCING SOLAR GREENHOUSE, John Muir Publication, P.O. Box 613, Santa Fe, NM, 161 pp., 1976, Available from Book People, 2940 Seventh Street, Berkeley, CA 94710, \$6.00.
- Fisk, Daria Bolton, TEACHING REGIONAL PASSIVE CLIMATIC DESIGN, 2nd NPSC, p. 773.
- Fisk 3rd, Pliny, SPATIAL DISTRIBUTION AND CHARACTERISTICS OF TEN HIGH-MASS EARTH MATERIALS WITHIN THE STATE OF TEXAS, 2nd NPSC, p. 817.
- Fitch, James Marston, Branch, Daniel P., PRIMITIVE ARCHITECTURE AND CLIMATE, Scientific American, Vol. 203, No. 6, Dec 1960, pp. 133-144.
- Flinner, A.E., Nevins, R.G., EFFECT OF HEATED FLOOR TEMPERATURES ON COMFORT, ASHVE Transactions, Vol 64, 1958 -- ASVE Journal Vol. 29, No. 10, 1957.
- Fraker, Harrison, Glennie, B., FOCUSING ROOF APERTURE AND WATER-WALL PASSIVE SOLAR HEATING COMBINATIONS, 2nd NPSC, p. 150.

- Fraker, Harrison, Jr., and William L. Glennie, A COMPUTER SIMULATED PERFORMANCE AND CAPITAL COMPARISON OF 'ACTIVE VS. PASSIVE' SOLAR HEATING SYSTEMS, Passive Solar Heating and Cooling Conference and Workshop, Albuquerque, NM, May 18-19, 1976. Proceedings, Washington, D.C.: U.S. Government Printing Office, 1977, p. 254-269, Available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, VA 22161, 355pp., \$10.50 (paper).
- Franta, Gregory, THE ROLE OF THE SOLAR ENERGY INSTITUTE, 2nd NPSC, p. 725.
- Frantz, Margaret, McClintock, M., SOLAR SPACE HEAT AND DOMESTIC HOT WATER BY A SYSTEM OPERATING BOTH ACTIVELY AND PASSIVELY, 2nd NPSC, p. 505.
- Fonda-Bonardi, Mario, Pinney, N., Yu, Y-N., A NEW NOCTURNAL AIR COOLING SYSTEM, 2nd NPSC, p. 670.
- Freese, E.I., PATHWAYS OF THE SUN, American Architect, November, 1934.
- Frerking, Michael, THE HULL RESIDENCE: A PASSIVE SOLAR HYBRID SYSTEM, 2nd NPSC, p. 117.
- Fritz, S., SOLAR RADIATION DURING CLOUDLESS DAYS, Heating and Ventilating Vol. 46 No. 1, 1949.
- Fritz, S. and MacDonald, T.H., AVERAGE SOLAR RADIATION IN THE UNITED STATES, Heating and Ventilating, Vol. 46 No. 7, July, 1949.
- Fuschillo, N., SEMI-TRANSPARENT SOLAR COLLECTOR WINDOW SYSTEMS; Rutgers Univ., New Brunswick, NJ; Sol Energy V 17, p. 159-165, 29 refs, J1 1975. (TAC: ST75 40401)
- Gagge, A.P., Nishi, Yasunobu, Nevins, Ralph G., THE ROLE OF CLOTHING IN MEETING FEA ENERGY CONSERVATION GUIDELINES, ASHRAE Transactions, Vol. 82, Pt. 2, 1976.
- Garrison, Michael, THE DOUBLE BOX, 2nd NPSC, p. 180.
- Gates, Steven D., STUDIES OF EVAPORATIVE AND CONVENTIONAL COOLING OF AN ENERGY CONSERVING CALIFORNIA HOUSE, 2nd NPSC, p. 665.
- Gauss, A., Jr., SOLAR ENERGY STORAGE, (Ballistic Research Labs, Aberdeen Proving Ground, MD), 24 p. June 1976, BRL-1985, AD-A028 083/4WE, PC\$3.50/MF\$3.00. (TAC: ST76 42040)
- Geiger, Rudolf, THE CLIMATE NEAR THE GROUND, Harvard U. Press, Rev. ed. 1973, 611 pp., 4th ed., Harvard University Press, 79 Garden Street, Cambridge, MA 02138, 1965, \$18.00 (hard).

- Geoffroy, J., USE OF SOLAR ENERGY FOR WATER HEATING, UN: Rome, E 35-S58
- Gerhard, Geoffrey, PASSIVE SOLAR RETROFIT, 2nd NPSC, p. 228.
- Gertis, K., HEATING OF ROOMS AS A RESULT OF SOLAR RADIATION THROUGH WINDOWS, Institut fuer Technische Physik, Stuttgart, Germany: 1970 EDB-77:060630; In German. (TAC: ST77 34018).
- Gertis, K., SOLAR RADIATION THROUGH WINDOWS, Veroeffentlichungen aus dem Institut fuer Technische Physik, Stuttgart, Heft, No. 65, 1970 35 pp.
- Giesecke, F.E., NIGHT-AIR COOLING, ASHVE Transactions, Vol 56, 1950, ASHVE Journal Vol 22, No 1, 1950.
- Giffels Associates, SOLAR ENERGY AND HOUSING, Detroit, 150 pp. \$15.00.
- Gillett, D., ACTIVE VERSUS PASSIVE SYSTEMS--A DESIGN RATIONALE FOR THE SELECTION OF PASSIVE SYSTEMS BASED ON A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY, ECONOMICS AND THERMAL NETWORK ANALYSIS, 2nd NPSC, p. 828.
- Gilpin, R.R., THE USE OF SOUTH FACING WINDOWS FOR SOLAR HEATING IN A NORTHERN CLIMATE, Dept. of Mechanical Engineering, Univ. of Alberta, Canada; Aug 22-24, 1977.
- Givoni, B. BUILDINGS FOR HOT CLIMATES, Tech-Isr Inst of Technol, Haifa. Build Res Pract V2 N6, pp.336-343, 6 refs, Dec 1974, (TAC: ST75 55207)
- Givoni, B., EFFECT OF ROOF DESIGN ON INDOOR CLIMATE IN HOT ARID ZONES, Tech., Isr. Inst. of Technology, Hoffman, M.E. Build Int. (Engl Ed), V 6:525-540, N 5, Sept-Oct 73, 15 refs. (TAC: ST74 50404)
- Givoni, B., LABORATORY STUDY OF THE EFFECT OF WINDOW SIZE AND LOCATION ON INDOOR AIR MOTION, Architectural Science Review, Sidney Academic Press, June 1965.
- Givoni, B., and Hoffman, E., EFFECT OF WINDOW ORIENTATION ON INDOOR AIR TEMPERATURE, Architectural Science Review, Sidney Academic Press, September 1966.

- Glennie, Bill, FOCUSING ROOF APERTURE AND WATER-WALL PASSIVE SOLAR HEATING COMBINATIONS, 2nd NPSC, p. 150.
- Goldstein, M., SOME PHYSICAL-CHEMICAL ASPECTS OF HEAT STORAGE, UN: Rome E 35-S7.
- Golubov, M., Lettler, James W. and John, THE THING-A DIRECT GAIN SOLAR HOT WATER HEATER FOR NEW YORK CITY, 2nd NPSC, Vol. 2, pp. 642-646.
- Gonzalez, R.R. Nishi, U., EFFECT OF COOL ENVIRONMENTS ON LOCAL THERMAL SENSATION, DISCOMFORT AND CLOTHING SELECTION, Yale Univ School of Medicine, New Haven, CT ASHRAE Transaction, V 82:76-86, pt 1, 17 refs, 1976, Proc of the ASHRAE Semiannual Meeting, Dallas, TX, Feb 1-5, 1976. (TAC: ST77 35004)
- Gonzalo, R.M., DRYING OF 'CARIOCA' DRY BEANS WITH SOLAR ENERGY IN A STATIONARY BIN, de Carvalho Macedo, R., Univ Estadual de Campinas, Sao Paulo, Brazil; Pap ASAE, Pap 76-3021, 18 pp., 11 refs, for Annu Meet, Univ of Nebraska, Lincoln, June 27-30, 1976. (TAC: ST77 28005)
- Goodnight, Jill A., SURVEY OF STATE SOLAR INCENTIVE LEGISLATION, 2nd NPSC, Vol 3, p. 727.
- Gorham, S., Jr., SOLAR PRIMER, Construction Eng. Research Lab., Champaign, IL. Ind. Forum vol. 7 No. 2-3, 1976.
- Gresko, T.M., Glenn, D.R., THERMAL ENERGY STORAGE APPLIED TO RESIDENTIAL HEATING SYSTEMS, General Electric Co., Philadelphia, PA, V 1:591-597, 1976, in Intersociety Energy Conversion Engineering Conference, 11th, State Line, Nevada, Sept 12-17, 1976, Proceedings, New York, American Institute of Chemical Engineers, A77-12662 02-44, A77-12729. (TAC: ST77 23004)
- Griffith, J.W., DAYLIGHT UTILIZATION IN PASSIVE SOLAR SYSTEMS USING LIFE CYCLE COST-BENEFIT ANALYSIS, PSHCC. 5/18-1976, Albuquerque, NM.
- Grimmer, D.P., Moore, S.W., PRACTICAL ASPECTS OF SOLAR HEATING: A REVIEW OF MATERIALS USE IN SOLAR HEATING APPLICATIONS, University of California, Los Alamos, Sci. Lab, Natl, SAMPE, Tech Conf v7 pt 2 1975, for 7th Natl SAMPE Tech Conf: Mater Rey '75 Suppl. Albuquerque, NM. Oct 14-16, 1975, p. 23-34.

- Gruen, D.M., McBeth, R.L., Mendelsohn, M., Nixon, J.M., Schreiner, F., Sheft, I., HYCSOS-A SOLAR HEATING, COOLING AND ENERGY CONVERSION SYSTEM BASED ON METAL HYDRIDES, Argonne National Laboratory, Argonne, IL, V 1:681-687, 1976, In Intersociety Energy Conversion Engineering Conference, 11th State Line, Nevada, Sept 12-17, 1976, Proceedings, New York, American Institute of Chemical Engineers, A77-12662 02-44, A77-12740. (TAC: ST77 23005)
- Guceri, Selcuk, APPLICATION OF PHASE CHANGE MATERIALS IN A PASSIVE SOLAR SYSTEM, 2nd NPSC, p. 475.
- Gul'Karov, E.S., THEORETICAL CALCULATION OF THE TOTAL HEAT ENTERING THROUGH A WINDOW WITH A SHADING SYSTEM, Tashkent Regional Scientific Research Institute for the Experimental Design of Houses and Industrial Buildings, Appl. Solar Energy USSR-Engl. Transl. Vol. 6 No. 4, 1970 pp. 82-86.
- Gupta, C.L., Garg, H.P., SYSTEM DESIGN IN SOLAR WATER HEATERS WITH NATURAL CIRCULATION, Solar Energy, V 12:163-182, N 2, 1968, (TAC: ST74 40231)
- Gupta, C.L., THERMAL DESIGN MODEL FOR A NATURAL AIR CONDITIONING SYSTEM WITH APPLICATION TO POULTRY SHEDS IN HOT ARID REGIONS, Auroville Centre for Environmental Studies, Pondicherry-605002, India.
- Gupta, J.P., and Chopra, R.K., SOLAR SPACE HEATING AT HIGH ALTITUDE CONDITIONS, Defense Laboratory; Jodhpur, India; Solar Energy, V 18:51-57, N1; 15 refs; 1976; A76 26147. (TAC: ST76 55097)
- Haggard, K., AN INVESTIGATION OF ARCHITECTURAL ADAPTATIONS OF THERMAL PONDS AND MOVABLE INSULATION, California Polytechnic State Univ., San Luis Obispo, 1976 from Passive Solar Heating and Cooling, Keller, M.H., Ed., pp. 307-309. (ERDA/DOE 57).
- Haggard, K., PASSIVE SOLAR ARCHITECTURE, Arizona State Univ., Tempe Coll. of Architecture, 1975 from Proceedings of the ASC/AIA Forum '75 Solar Architecture Franta, G.Ed.
- Haggard, K.L., ARCHITECTURE OF A PASSIVE SYSTEM OF DIURNAL HEATING AND COOLING, (California Polytechnic State University) ISES, Rockville, Md., 1975 International Solar Energy Congress and Exposition.
- Haggard, Keith, and Francis, Barbara, PEOPLE IN BUILDINGS, Vol. 2, pp. 263-266.

- Haggard, K.L., Edmiston, J.W., Feldman, J., Hawes, M., Niles, P.W.B. RESEARCH EVALUATION OF A SYSTEM OF NATURAL AIR CONDITIONING, FINAL REPORT, California Polytechnic State Univ., San Luis Obispo CA, Jan. 1975, from Roof Ponds and Movable Insulation, NTIS \$10.00 9:501:365.
- Haggard, Keith, ENERGY ANALYSIS AS A POLICY TOOL, 2nd NPSC, p. 691.
- Haggard, Kenneth, AN OFFICE BUILDING FOR AN ERA OF TRANSITIONS: APPLICATION OF THE SKYTHERM SYSTEM OF PASSIVE HEATING AND COOLING TO A MODERATE DENSITY OFFICE BUILDING, 2nd NPSC, p. 223.
- Haggard, Kenneth, FIRST COST ECONOMIC EVALUATION OF THE ATASCADERO SKYTHERM HOUSE, p. 250 PSHCC.
- Haggard Kenneth, A PASSIVE SOLAR HOUSE BASED ON BALANCED DIRECT GAIN HEATING AND NIGHT VENTILATION COOLING, 2nd NPSC, p. 133.
- Hagman, F., WINDOW AS AN ENERGY FACTOR, INSULATING SHUTTERS: FUNCTION, CONSTRUCTION, ECONOMY, Svensk Byggtjänst, Stockholm, 1975 in Swedish.
- Hagman, F., WINDOWS AS AN ENERGY FACTOR, Cold Regions Research and Engineering Lab., Hanover, NH, 64 pp., Jan 1977, CRREL-TL-579, AD-A037 480/IWE (TAC: ST 77 32068).
- Hamid, Y.K., TRANSPIRATION COOLING OF RADIATIVELY HEATED POROUS BED, Univ. Khartoum, Sudan ASME, Beckman, W.A., New York, 1969.
- Hamilton, Blair, EVALUATIONS OF PASSIVE SOLAR HEATING AT THE NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY, 2nd NPSC, p. 732.
- Hammitt, A.G., SOLAR ENERGY STORAGE SYSTEMS, Publ by West Period Co., North Hollywood, CA, Counc of Eng and Sci, Proc Ser, V 1:159-164, 1975, Greater Los Angeles Area, Energy Symp, Proc, Apr 3, 1975. (TAC: ST76 42041)
- Hammond, Jonathan, DESIGN INNOVATIONS: THE SUNCATCHER AND THE COOL POOL, 2nd NPSC, Vol. 1, pp. 137-140.
- Hammond, Jonathan, WINTERS HOUSE, p. 153 PSHCC.
- Hand, Jon W., Higgs, F., ASSESSING THE VIABILITY OF THE SKY AS A HEAT SINK FOR PASSIVE COOLING IN NORTH CENTRAL TEXAS, 2nd NPSC, P. 679.
- Hansen, David G., and Yellott, John I., A STUDY OF NATURAL COOLING PROCESSES IN A HOT, ARID REGION, National Passive Solar Conference, 2nd, Univ. of Pennsylvania, Phila., PA, Mar 16-18, 1978, Passive Solar: State of the Art, 3 vols., Available from Mid-Atlantic Solar Energy Association, 2233 Gray's Ferry Avenue, Phila., PA 19146, \$20.00 (paper), Vol. 2, pp. 653-657.

- Harmathy, T.Z. and Allen, L.W., THERMAL PROPERTIES OF SELECTED MASONRY UNIT CONCRETES, ACI Journal, February 1973.
- Harnett, R., COMPARISON OF RIGID PLASTIC MATERIALS WITH GLASS FOR GREENHOUSE CLADDING, Proceedings of Plastics in Agriculture and Horticulture Conference; Wye Coll, Kent, Engl, 6p., Mar 1974, Publ. by Plast. Inst., London, 74.
- Harris, W.S., Jones, R.A., Konzo, S., Shick, W.L., ILLINOIS HOUSE, Univ. of Illinois, ASISES, Cape Canaveral, Fl., 1976, from Sharing the Sun: Solar Technology in the Seventies, Vol 4, Boer, K.W., Ed.
- Harrison, David, REVIEW OF MONTE VISTA ELEMENTARY SCHOOL GREENHOUSE, p. 108 PSHCC,
- Harrison, David C., HARRISON RESIDENCE, PLACITAS, NEW MEXICO, 2nd NPSC, p. 35.
- Hasselmann, Peter M., SOLAR ENERGY, ARCHITECTS AND DEVELOPERS IN 1978, 2nd NPSC, p. 888.
- Hastings, S. Robert, A COMPREHENSIVE APPROACH TO WINDOW DESIGN FOR ENERGY CONSERVATION, 2nd NPSC, Vol. 2, pp. 321-325.
- Hauer, Charles R., PASSIVE SOLAR COLLECTOR WALL, 2nd NPSC, p. 485.
- Haven, J.A., Babcock, R.E., HEAT AND MOISTURE CONDUCTION IN UNSATURATED SOILS, Arkansas Univ., Fayetteville, Water Resources Research Center; Publ-25, W75-08477, OWRT-A-014-ARK (2); PB-242, 328/3WE; 117 pp., June 1974 (TAC: ST 75 42006).
- Hay, H., SKYTHERM HEATING AND COOLING PROCESS, Arizona State Univ. Coll. of Arch. 1975, Proceedings of the ASC/AIA Forum '75 Solar Architecture, Franta, G., Ed., 9:502:544. (ERDA/DOE 281)
- Hay, H.R., ENERGY, TECHNOLOGY AND SOLAR-ARCHITECTURE, Sky Therm Processes and Engineering, Los Angeles, Mech. Eng., V 95:18-22 N 11, Nov 73.
- Hay, H.R., IMPROVED NATURAL AIR CONDITIONING FOR THE TROPICS, Symposium Environmental Physics, Central Building Research Institute, Roorkee, India, Feb. 1969.
- Hay, H.R., NEW ROOFS FOR HOT DRY REGIONS, Ekistics, No. 153, Feb. 1971, pp. 158-64.
- Hay, Harold R., PASSIVE THERMAL CONTROL SYSTEMS: PHILOSOPHY AND REALITY, Abstract in International Solar Energy Society Congress and Exposition, Univ of California, Los Angeles, July 28-Aug 1, 1975, Solar Use Now - A Resource for People, International Solar Energy Society, c/o Smithsonian Radiation Biology Laboratory, 12441 Parklawn Drive, Rockville, MD 20852, 1975, pp. 48-49. \$15.00 (paper), Complete paper available from author, c/o Skytherm Processes and Engineering, 2424 Wilshire Blvd, Los Angeles, CA 90057

- Hay, Harold R., Yettott, John I., NATURAL AIR CONDITIONING WITH ROOF PONDS AND MOVABLE INSULATION, ASHRAE Transactions, Vol. 75, pt. 1, 1969, paper 2102, pp. 165-177.
- Hay, H.R., Yellott, J.I., INTERNATIONAL ASPECTS OF AIR CONDITIONING WITH MOVABLE INSULATION, Solar Energy, V 12:427, pp 165-77, N 4, '69.
- Hay, H.R., Yellott, J.I., NATURALLY AIR-CONDITIONED BUILDING, Mech. Eng. V 92:19-25, N 1, Jan 70, 10 refs. (TAC: ST74 55221)
- Hay, H.R., Yellott, J.I., THERMAL ANALYSIS OF BUILDING WITH NATURAL AIR CONDITIONING, ASHRAE Trans., V 75:178-190 Pt. 1, Paper 2103, 1969, 16 refs. (TAC: ST74 55220)
- Hay, H.R., Yellott, J.I., CONSTRUCTION AND OPERATION OF A NATURALLY AIR-CONDITIONED BUILDING, Sky Therm Processes and Engineering, Phoenix, Ariz. N74-75884/8GA, Rept. No. 68-WA/SOL-2, 12pp, Dec. 1968. Presented at the ASME Winter Annual Meeting and Energy Systems Exposition, New York, Dec 1-5, 1968, Rept. no. 68-WA/SOL/-2. Prepared in cooperation with ASME, New York, and Engineering Associates, Phoenix, AZ. (TAC: ST75 55227)
- Hay, Harold, ATASCADERO RESIDENCE, p. 101 - 107, PSHCC.
- Hay, Harold, SKYTHERM NATURAL AIR CONDITIONING FOR A TEXAS FACTORY, 2nd NPSC, p. 214.
- Hay, Harold R., RESEARCH EVALUATION OF A SYSTEM OF NATURAL AIR CONDITIONING, California Polytechnic State University, 1975.
- Hay, Harold R., ROOF MASS AND COMFORT, 2nd NPSC, p. 23.
- Heerwagen, D.R., THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, 2nd NPSC, p. 365.
- Heap, R.D., THERMAL STORAGE IN BUILDINGS, Electri Coun Res Cent, Capenhurst, Chester, Engl. Build Int (Engl Ed) V8 N1, Jan-Feb 75, P. 1-16, 19 refs. (TAC: ST75 50216)
- Heerwagen, D.R., THE EVALUATION OF PASSIVELY-CONTROLLED, ALTERNATE BUILDING DESIGNS BY THE THERMAL SIMULATION COMPUTER PROGRAM UWENSOL, 2nd NPSC, p. 357.
- Heeschen, Conrad, AN INVERTED SOLAR WATER HEATER FOR DOMESTIC HOT WATER, 2nd NPSC, p. 632.

- Heindl, W., Koch, H.A., HEAT LOAD CALCULATION FOR SOLAR RADIATION GAIN, Gesundheits Ing, V 97:301-304, 309-314, N12, 8 refs, Dec 1976, In German. (TAC: ST77 34020)
- Heindl, W., SIGNIFICANCE OF SUN RADIATION AND THE HEAT STORAGE CAPACITY OF ENERGY CONSUMPTION OF HEATING INSTALLATIONS IN DOMESTIC BUILDINGS, Klima Kael Teing, Vol. 4 No. 1, Jan. 1976 in German.
- Heldt, R., ACTIVE VERSUS PASSIVE SYSTEMS-A DESIGN RATIONALE FOR THE SELECTION OF PASSIVE SYSTEMS BASED ON A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY, ECONOMICS AND THERMAL NETWORK ANALYSIS, 2nd NPSC, p. 828.
- Heldt, Richard W., USE OF COMPUTER ANALYSIS FOR PASSIVE SOLAR BUILDING DESIGN, 2nd NPSC, p. 575.
- Hendricks, E., EFFECTS OF CONTROLS ON WATER WALL PERFORMANCE, 2nd NPSC, p. 555.
- Her Majesty's Stationery Office, WINDOW DESIGN AND SOLAR HEAT GAIN, London, 1968.
- Herrington, L.P., CLIMATE AND THE INDIVIDUAL, ASRE Journal Vol 58, No 1,
- Hewitt, H.C., Griggs, E.I., OPTIMAL MASS-FLOW RATES THROUGH FLAT-PLATE SOLAR COLLECTOR PANELS, Tennessee Technol Univ., Cookeville, TN, Mechanical Engineering, V 99:132, N2, 1977. (TAC: ST77 21044)
- Heywood, H., A GENERAL EQUATION FOR CALCULATING TOTAL RADIATION ON INCLINED SURFACES, International Solar Energy Society, Conference, Melbourne, Australia, March 2-6, 1970; Paper, 8 pp, 5 Refs., published by the Australian and New Zealand Section of the Society, 191 Royal Parade, Parkville, Victoria 3052. (TAC: ST74 20022), Available from Technology Application Center, Univ. of NM, Albuquerque, NM 87131 (ST77 37035) \$4.20.
- Heywood, H., SIMPLE INSTRUMENTS FOR THE ASSESSMENT OF DAILY SOLAR RADIATION INTENSITY, UN: Rome; E 35-S9.
- Heywood, H., SOLAR WATER HEATING IN GREAT BRITAIN, Solar Energy, Vol. 3, No. 3, Oct. 1959 pp. 29-30.
- Higgs, Forrest, ASSESSING THE VIABILITY OF THE SKY AS A HEAT SINK FOR PASSIVE COOLING IN NORTH CENTRAL TEXAS, 2nd NPSC, p. 679.
- Hirayama, Takashi, EXPERIMENT ON HEAT GAINS OF ROOFS BY SOLAR RADIATION, 4DE0005 3P Tp ASUSI.

- Hirshberg, Allen, PRELIMINARY ECONOMIC EVALUATION OF GENERIC PASSIVE SOLAR ENERGY SYSTEM/BUILDING APPLICATIONS 2nd NPSC, pp. 699.
- Hisada, T., and Oshida, I., USE OF SOLAR ENERGY FOR WATER HEATING, UN: Rome E 35 Gr-S13.
- Hix, John, THE GLASS HOUSE, The MIT Press, 28 Carleton Street, Cambridge, MA 02142 \$22.50 208 pp, 1974.
- Hodgins, J.W., LOW TEMPERATURE THERMAL ENERGY STORAGE, Qvale, B., Koefoed, J., Swartman, R.K., Aureille, R., Glew, D.N., Grjebine, T., Gruen, D.M., Hooper, F.C., Royle, J.K., pp. 27-34, 1976, In Thermal Energy Storage; NATO Science Committee Conference, Turnberry, Scotland, Mar 1-5, 1976, Report Brussels, NATO, A76-45543, A76-45546. (TAC: ST 77 23006)
- Hoff, Eric, Jenkins, David, Van Duyn, Jim, NOTI SOLAR GREENHOUSE: PERFORMANCE & ANALYSIS, University of Oregon; Department of Architecture; Eugene, OR; 1977.
- Hogan, I., SOLAR BUILDING IN THE PYRENEES, Archit. Des., Jan 1976 p. 113.
- Hohm, W., SUNLIGHT IN DWELLINGS, ISES 73:EH54 4DF0011 1973 5P TP ASUSI.
- Hohmann, R., THERMAL INSULATION FOR BUILDINGS, Elektrowaerme Int., V 34:285-290, NA6, Nov 1976, In German. (TAC: ST77 32073)
- Holdrige, T.B., PASSIVE VERSUS ACTIVE COLLECTOR SYSTEMS: A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY AND ECONOMICS, 2nd NPSC, P. 790.
- Holton, J.K., DAYLIGHTING OF BUILDING. A COMPENDIUM AND STUDY OF ITS INTRODUCTION AND CONTROL, NBS, Washington, DC, 39pp., Oct 1976, NBSIR-76-1098, PB-259, 523/9WE. (TAC: ST 77 33010) Available from NTIS \$4.00 (paper)
- Holton, John, THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES FOR PASSIVE BUILDINGS, 2nd NPSC, p. 411.
- Holton, John K., CRITICAL PERFORMANCE STANDARDS FOR PASSIVE SOLAR BUILDINGS, 2nd NPSC, Vol. 2, pp. 294-297.

- Holtz, Michael, CLIMATE AND SITE: INFLUENCE ON PASSIVE SOLAR BUILDING DESIGN, pp. 17-22 PSHCC.
- Hottel, H.C. and Woertz, B.B., THE PERFORMANCE OF FLAT-PLATE SOLAR HEAT COLLECTORS, Trans. AM. Soc. Mech. Engr., Vol. 64. 1942, pp. 91-104.
- Hottinger, M., INFLUENCE OF SUN ON THE HEATING OF ROOMS, Gesund.-Ing., V 58:779-784, Dec 1935, EDB-77:041514, In German. (TAC: ST77 35008).
- Houghton, F., HEAT GAIN THROUGH GLASS BLOCKS BY SOLAR RADIATION AND TRANSMITTANCE, Heat, Piping, Air Cond. No. 12, April 1940, p. 264.
- Houghton, F., HEAT GAIN THROUGH WALLS AND ROOFS AS AFFECTED BY SOLAR RADIATION, Heat., Piping, Air Cond.; May, 1942; No. 206.
- Houghton, F., SUMMER COOLING LOAD AS AFFECTED BY HEAT GAIN THROUGH DRY, SPRINKLED AND WATER COVERED ROOFS, ASHRAE TR:V46 '40 pp. 231-46 JA. ASUSI.
- Hourmanesh, M. EARTH AIR HEAT EXCHANGER SYSTEM, 2nd NPSC. p. 146.
- Hourmanesh, Ray, EARTH AIR HEAT EXCHANGER SYSTEM, 2nd NPSC, p. 146.
- Hsieh, C.K., CALCULATION OF THERMAL RADIATIVE PROPERTIES OF GLASS, ASHRAE Transactions, Vol. 82, Pt. 1, 1976.
- Hsieh, C.K. and Coldwey, R.W., THERMAL RADIATIVE PROPERTIES OF GLASS, ASHRAE Transactions, Vol. 18, Pt. 2, 1975.
- Huang, B.K., Abrams, C.F., Jr., Coats, L.L., Bowers, C.G., Jr., DEVELOPMENT OF GREENHOUSE BULK DRYING SYSTEMS FOR SOLAR ENERGY UTILIZATION AND PLANTBED MECHANIZATION, North Carolina State University, Raleigh, ASAE Paper 68th Annual Meeting, University of California, Davis, Pap 75-1018, 20 pp., 16 refs, June 22-25, 1975, Publ by ASAE, ST. Joseph. (TAC: ST 76 47002)
- Hughes, P.J., Klein, S.A., PACKED BED THERMAL STORAGE MODELS FOR SOLAR AIR HEATING AND COOLING SYSTEMS, Close, D.J., ASME Transactions, Series C-Journal of Heat Transfer, V 98:336-338, 9 refs, May, 1976, Contract No. E (11-1)-2588); A 76-33532. (TAC: ST 76 42027)

- Hull, John R., PASSIVE SOLAR RESIDENCE FOR THE FARM OF TODAY AND TOMORROW, 2nd NPSC, p. 266.
- Hummell, J.D., Bearint, D.E., Eibling, Jmaes E., SURVIVAL SHELTER COOLING: CONVENTIONAL AND NOVEL SYSTEM, ASHRAE Transactions, Volume 71, Part 1, 1975; ASHRAE Journal, Volume 7, No. 3, 1975.
- Humphries, T.S., DeRaums, G.E., Jr., CORROSION INHITITORS FOR SOLAR HEATING AND COOLING SYSTEMS, NASA, Marshall, TN D-8409, 20 pp., February, 1977, \$3.50.  
(TAC: ST 77 20002)
- Hunn, B.D., A HYBRID PASSIVE/ACTIVE SOLAR HOUSE, University of California at Los Alamos, NM; International Solar Energy Society Annual Meeting, Orlando, Florida, June 6-10, 1977, Proceedings. Section 1-13, A78-11212 01-44 Cape Canaveral, Florida, International Solar Energy Society, 1977; pp. 11-16 to 11-20.  
(NASA 78A11269)
- Hunn, B.D., A HYBRID PASSIVE/ACTIVE SOLAR HOUSE: FIRST YEAR PERFORMANCE OF THE HUNN RESIDENCE, 2nd NPSC, Volume 1, pp. 247-251.
- Hunt, Marshall B., CALIFORNIA'S PASSIVE PROGRAM, 2nd NPSC, p. 694.
- Hussain, N.A., Seigel, R., RADIATION EXCHANGE FOR A SYSTEM WITH PARTIALLY TRANSMITTING WALL, NASA, Lewis Research Center Cleveland, Ohio; Letter in Heat and Mass Transfer Volume 2, pp. 105-114, 7 refs, March-April 1975, A75-39394. (TAC: ST 4033)
- Hutchinson, F.W., THE SOLAR HOUSE, Progressive Architecture, May, 1947.
- Hymer, Robert, MOVABLE INSULATION: NEW DEVELOPMENTS AT ZOMEWORKS, 2nd NPSC, p. 310.
- ISES, APPLICATION OF SOLAR TABLES TO SHADING COEFFICIENTS FOR HORIZONTAL SUNBREAKS, 70 4D10002 1970 6P TP ASUSI.  
International Solar Energy Society, American Section, Annual Meeting, Denver, CO, August 28-31, 1978. Proceedings. 2 Volumes, Available from American Section International Solar Energy Society, Inc., P.O. Box 1416 Killeen, TX 76541 \$60.00 - paper
- Isfaelt, Engelbrekt, HEAT STORAGE EFFECT IN BUILDINGS, Tech Hochsch, Stockholm, Sweden, Klim Kaelte Ing, V 1:20-24, No. 10, October, 1973. In German. (TAC: ST 74 50235)
- IMI, MASONRY CONSERVES ENERGY, reprint of August 1977 issue of Buildings Magazine.

- Jain, S.P., EXPERIMENTAL STUDY OF THE EFFECT OF ROOF SPRAY COOLING ON UNCONDITIONED AND CONDITIONED BUILDINGS, Cent. Build, Res. Inst., Roorkee, India; Rao, K.R., Build. Sci., V 9:9-16, N 1, Mar 1974, 7 refs. (TAC: ST 74 55225)
- Jakob, F.E., AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, 2nd NPSC, p. 106.
- Jakob, Max, John, Wiley, and Sons, Inc., HEAT TRANSFER, VOLUME ONE, New York, 1949.
- Jaros, A.L., Jr., GLASS TYPES AND SOLAR SHADING, Air Cond. Heat., and Vent. Vol. 59 No. 4, April, 1962, pp. 52-68.
- Jaung, R., ENERGY TRANSPORT CONTROL IN WINDOW SYSTEMS, 2nd NPSC, p. 326.
- Jenkins, Dan, THE TSAWWASSEN "ENVIRONMENTALLY RESPONSIVE" EXPERIMENTAL HOUSE, Architectural Design; Calgary, Alberta; Solar Energy Update '77: Faculty of Extension, Univ. of Alberta; Edmonton, Alberta.
- Jenkins, W.R., Bezeman, M., Way, G.E., INTEGRATION OF PASSIVE SOLAR SYSTEMS AND SOLAR ACTIVATED DEHUMIDIFICATION SYSTEMS IN THE HOUSTON AREA, University of Houston, Texas, Proceedings of the Southeast Conference on Application of Solar Energy, 2nd, Baton Rouge, Louisiana, April 19-22, 1976, Available from NTIS, Springfield, VA (TAC: ST 77 30133)
- Jennings, B.H., RESEARCH ON HUMAN COMFORT AND ENVIRONMENT, ASHVE Journal, Vol. 30, No. 10, '58.
- Jensen, R.N. IMPROVED SOLAR HEATING SYSTEM, NASA, Langley, NASA-CASE-LAR-12009-1, 13 pp., Filed August 24, 1976. This Government-owned invention available for U.S. licensing and, possibly for foreign licensing, PAT-APPL-717 320/WE, N76-32649/5; Available:NTIS. (TAC: ST77 30030)
- Johnson, C.A. RECYCLING ENERGY BUILDING HEAT EXCHANGE SYSTEMS, American Society of Automotive Engineers, Chicago, Il, 1976, EDB-77:061574. (TAC: ST77 30134) Paper ASAE, Pap 76-4035, 24 pp., 7 refs, for Annual Meeting, University of Nebraska, Lincoln, NE, June 27-30, 1976. (TAC: ST77 32013)

- Johnson, T.E., Wellesley-Miller, S., Chahroudi, D., Brooks, J., Wagner, S., EXPLORING SPACE CONDITIONING WITH VARIABLE MEMBRANES, Massachusetts Institute of Technology NSF/RA/N-75-058, 117 pp., April, 1975, Cambridge Department of Architecture, PB-245, 137/5WE, N76-16649. (TAC: ST 75 50046)
- Johnson, T.E., RADIATION COOLING OF STRUCTURES WITH INFRARED TRANSPARENT WIND SCREENS, MIT, Cambridge, MA 02139, Solar Energy V 17, pp. 173-178, 1975. (TAC: ST75 44202)
- Johnson, Timothy, NEW BUILDING MATERIALS AND COMPONENTS FOR PASSIVE HEATING OF BUILDINGS, p. 288, PSHCC.
- Johnson, Timothy E., PRELIMINARY PERFORMANCE OF THE MIT SOLAR BUILDING 5, 2nd NPSC, p. 610.
- Johnson, William C., PASSIVE SOLAR HEATED WAREHOUSE, 2nd NPSC, p. 52.
- Jones, R.A., FUTURE ENERGY SAVING DESIGNS AND CHALLENGES IN BUILDING CONSTRUCTION, (University of Illinois), presented at NSF RANN/ASHRAE Conference on Energy Conservation in Commercial, Residential and Industrial Buildings at Ohio State University, Survey Report, 265 pp., May 5-7, 1974. (TAC: ST 76 50049)
- Jones, R.E., Jr., ESTIMATED HOURLY RADIATION ON A TILED SURFACE FOR THUNDER BAY, ONTARIO, Department of Geography, Lakehead University; and Kemp, Thunder Bay, Ontario.
- Jones, R.E. Jr., PASSIVE SOLAR HEATING DESIGN FOR CANADA, Department of Physics, Lakehead University, Thunder Bay, Ontario, Tymura, E.J., Tymura Solar Designs, presented at Solar Energy Update '77 3rd Annual General Meeting and Conference, Solar Energy Society of Canada, Inc.
- Jones, Thomas H., NEW FOR YOUR WINDOWS: ADD-ON SUN CONTROL, Popular Science: September 1974, p. 125.
- Jordan, C.H., GRAPHIC METHOD OF ANALYSIS OF EXTERIOR SOLAR SHADING, ASHRAE Journal, V 9:36-37, N 3, March, 1967. (TAC: ST 74 50108)
- Jordan, R.C., and Threlkeld, J.L., SOLAR ENERGY AVAILABILITY FOR HEATING IN THE UNITED STATES, Heating, Piping and Air Conditioning, Vol. 25, December, 1953, 111 pp.

- Jordan, R.C., SOLAR ENERGY STORAGE PRACTICAL APPLICATION, American Artisan, October, 1960, pp. 53-56.
- Kachadorian, James & Converse, Alvin O., GREEN MOUNTAIN HOMES HYBRID SYSTEMS, 2nd NPSC, Volume 1, pp. 261-265.
- Kalt, A., INVESTIGATION OF THE THERMAL LOAD OF ROOMS AS A RESULT OF SOLAR RADIATION THROUGH WINDOWS BY LABORATORY EXPERIMENTS USING SIMULATED GLOBAL RADIATION, European Space Research Organization, Paris, France; DLR-FB-73-73; ESRO-TT-92; 77 pp.; refs. September, 1974.  
(TAC: ST 75 50403)
- Kalwall Corporation, LOW COST MODULAR PASSIVE SOLAR FURNACE SYSTEM DEVELOPMENT, Kalwall Corporation, Manchester, NH.
- Kanestrom, I., CO<sub>2</sub>--GREENHOUSE OR ATMOSPHERIC EFFECT, Oslo, Universitetet, Oslo, Norway; Geophysical Norvegica Geofysiske Publikasjoner, Volume 31, No. 3, 1976, pp. 1-5.
- Kapur, J.C., SOCIO-ECONOMIC CONSIDERATIONS IN THE UTILIZATION OF SOLAR ENERGY IN UNDERDEVELOPED AREAS, UN: Rome Gen. 8.
- Kauffman, K., Gruntfest I., CONGRUENTLY MELTING MATERIALS FOR THERMAL ENERGY STORAGE, Report No. NCEMPT-20, NSF/RANN Grant Nos. GI29729, National Center for Energy Management & Power, University of Pennsylvania, Philadelphia, November, 1973. (TAC: ST 74 42224)
- Keck, G.F., HOUSES, Architect Rec., pp. 91-93, January, 1941, EDB-77:053830. (TAC: ST 77 33068)
- Kelbaugh, D., THE KELBAUGH HOUSE, Solar Age, Volume 1, No. 7, July, 1976.
- Kelbaugh, Doug, KELBAUGH HOUSE: RECENT PERFORMANCE, 2nd NPSC, p. 69.
- Keller, Bruce M., PASSIVE SOLAR HEATED WAREHOUSE, 2nd NPSC, p. 52.
- Keller, Scott F., SOLAR EXPERIMENTS WITH PASSIVE RETROFIT, 2nd NPSC, p. 81.
- 2
- Kenin, S.R., THE \$250/Ft SOLAR COLLECTOR: A DESCRIPTION AND COST ANALYSIS, 2nd NPSC, p. 588.
- Keniston, Stanley, Quigley, R.W., THE THIRD OVERLAY, 2nd NPSC, p. 241.

- Kennedy, Richard J., EDUCATIONAL INCENTIVES FOR PASSIVE SYSTEMS, 2nd NPSC, P. 758.
- Khandani, Hassan, OTHER ASPECTS OF THERMIC DIODE SOLAR PANELS: COOLING AND TEMPERATURE CONTROL, 2nd NPSC, p. 271.
- Klapper, Sheldon, MARKLE/VERMONT HYBRID SOLAR RESIDENCE, 2nd NPSC, p. 252.
- Keyes, M.W., ANALYSIS AND RATING OF DRAPERY MATERIALS USED FOR INDOOR SHADING, ASHRAE-Transactions, Volume 73, Pt. 1, '67 Paper 2040, 15 pp.; also ASHRAE Journal, V 9:59-66, No. 10, October, 1967. (TAC: ST 74 50155)
- Khairiddinov, B., Umarov, G. Ya., Bardiashvili, B.A., Dadykov, T.A., SOLAR GLASS HOUSE WITH SUBSOIL HEAT ACCUMULATOR, Academy of Science of the Uzb SSR, Geliotekhnika, No. 6, pp. 78-81, 1978. (TAC: ST 77 30139)
- Khan, E.U., PRACTICAL DEVICES FOR THE UTILIZATION OF SOLAR ENERGY, Solar, Energy, V 8:17, No. 1, '64. (TAC: ST74 10055)
- Khanna, M.L., DESIGN DATA FOR HEATING AIR BY MEANS OF HEAT EXCHANGER WITH RESERVOIR, UNDER FREE CONVECTION CONDITIONS FOR UTILIZATION OF SOLAR ENERGY, National Physical Lab., New Delhi, India, Solar Energy Vol. 12, No. 4, December, 1969, pp.447-456.
- Kidd, J.H., THE USE OF GENERALIZED THERMAL NETWORK ANALYZERS FOR PASSIVE SOLAR ANALYSIS, 2nd NPSC, p. 353.
- Kimura, K., Stephenson, D.G., SOLAR RADIATION ON CLOUDY DAYS, ASHRAE-Transactions, V 75:227-34, Paper 2106, Pt 1, 1969. (TAC: ST 74 22012)
- Kinney, Laurence F., APPROPRIATE SYSTEMS FOR HEATING BUILDINGS: THE CASE FOR PASSIVE SOLAR WITH MOVABLE INSULATION, 2nd NPSC, p. 795
- Kippenhan, C.J., THE EVALUATION OF PASSIVELY-CONTROLLED, ALTERNATE BUILDING DESIGNS BY THE THERMAL SIMULATION COMPUTER PROGRAM UWENSOL, 2nd NPSC, p. 357.
- Kish, A.L., CLIMATE OF CLEMSON, S.C., National Weather Service, Clemson, S.C. NOAA-7409410, 33 pp.; August, 1974. (TAC: ST 75 21002)

- Klausing, T.A., AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, 2nd NPSC, p. 106.
- Klein, W., PROPERTIES AND PERFORMANCE OF SUN-SHIELDING GLASSES, Jenaer Glaswerk Shott & Gen, Mainz, German, Glass, V 53: 91-94, No. 3, March, 1976. (TAC: ST 76 50084)
- Knabe, G., OPTIMUM STORAGE CAPACITY OF WALLS, Luft Kaeltech, V 7:68-74 No. 2, April, 1971, In German. (TAC: ST 74 50209)
- Knowles, Ralph, SOLAR ETHICS - URBAN FORM, 2nd NPSC, Volume 3, pp. 840-849.
- Knowles, Ralph L., ENERGY AND FORM: AN ECOLOGICAL APPROACH TO URBAN GROWTH, The MIT Press, 28 Carleton Street, Cambridge, Massachusetts 02142; 1974, 98 pp. \$27.50 - hardback
- Knudtson, Peter ENERGY ANALYSIS AS A POLICY TOOL, 2nd NPSC, p. 691.
- Koch, W., Jennings, B.H., Humphreys, C.M., ENVIRONMENTAL STUDY II, SENSATION RESPONSES TO TEMPERATURE AND HUMIDITY UNDER STILL AIR IN COMFORT RANGE, ASHRAE Transactions, Volume 66, 1960; ASHRAE Journal, Volume 2, No. 4, 1960.
- Koenigsberger, et. al., MANUAL OF TROPICAL HOUSINGS AND BUILDINGS - PART 1 - CLIMATIC DESIGN, Longman, London, 1974; 320 pp. \$ 9.00, \$4.95.
- Koenigsberger, O., Lynn, R., ROOFS IN THE WARM HUMID TROPICS, Architectural Association, #1 London; 56 pp. \$5.50.
- Kohler, Joseph, MODELING PASSIVE BUILDINGS USING TRNSYS, 2nd NPSC, p. 398.
- Kohler, Joseph, PASSIVE COST AND PERFORMANCE COMPARISONS, 2nd NPSC, p. 800.
- Kohler, Joseph T., THE IMPACT OF ACTIVE AND PASSIVE BUILDINGS ON UTILITY PEAK LOADS, 2nd NPSC, p. 811.
- Kolstead, Charles D., THE ECONOMICS OF THE ATTACHED SOLAR GREENHOUSE FOR HOME HEATING - A PRELIMINARY ASSESSMENT, 2nd NPSC, Volume 3, pp. 822-826.
- Kolstead, Charles D., WHY AN OWNER BUILT GREENHOUSE IS COMPETITIVE WITH GAS FOR HOME HEATING IN NORTHERN NEW MEXICO, NMSEA Bulletin; January, 1977, Volume 2, No 1; p. 5.

- Komkov, Wadim, HEAT TRANSFER IN LARGE BUILDINGS, International Masonry Institute, Washington, DC
- Konstantinov, A.R., Sakaly, L.I., Daigot, L.S., THE SIGNIFICANCE OF THE COMPONENTS OF HEAT AND WATER BALANCES IN THE FORMATION OF MICRO AND LOCAL CLIMATE, Ukrainian Scientific Hydrometeorological Institute, USSR, N75-23013; In WMO Physics and Dynamic Climatology, pp. 99-105, 1974. (TAC: ST 75 20021)
- Kranz, P., CALCULATING HUMAN COMFORT, ASHRAE Journal, Volume 6, Number 9, September, 1967. pp. 68-77.
- Kremers, Jack A., SOME FOREIGN CULTURE PASSIVE SOLAR ENERGY FORMS, 2nd NPSC, p. 753.
- Kroner, W.M., and Haviland, D.S., PASSIVE ENERGY TECHNOLOGIES FOR RESIDENTIAL CONSTRUCTION, Center for Architectural Research, School of Architecture, Rensselaer Polytechnic Institute, Troy, NY 12181 \$ 5.00 500 pp.
- Kulojan, L.T., Melikjan, S.A., ESTIMATION OF HEAT ENTERING BUILDINGS WITH PORCHES, Heliotechnology, V 5:55, No. 6, '69. (TAC: ST 74 50250)
- Kumar, S., SEASONAL STORAGE OF ENERGY IN SOLAR HEATING SYSTEMS, Inter-Technology Corporation, Warrenton, Virginia; American Institute of Aeronautics and Astronautics, Thermophysics Conference, 11th, San Diego, CA, Paper 76-449, 8 pp., 6 refs, J1 14-16, 1976, A76-37694. (TAC: ST 76 42043)
- Kusianovich, J., SOLAR HEATED GREENHOUSE WITH A ONE YEAR PAYOUT, Zomeworks Corp., Albuquerque, NM, Solar Use Now - A Resource for People, Publication by ISES, Smithsonian Radiation Biology Lab, Rockville, Maryland pp. 67-68, 1975; International Solar Energy Congress and Exposition, Extended Abstract, University of California, Los Angeles, July 28 - August 1, 1975. (TAC: ST 77 27002)
- Kusuda, T., THERMAL RESPONSE FACTORS FOR MULTI-LAYER STRUCTURES OF VARIOUS HEAT CONDUCTION SYSTEMS, ASHRAE, No. 2108, ASHRAE Semi-annual Meeting, January 27-30, 1969, Chicago, Illinois.
- Kusuda, T., Ishii, K. HOURLY SOLAR RADIATION DATA FOR VERTICAL AND HORIZONTAL SURFACES ON AVERAGE DAYS IN THE UNITED STATES AND CANADA, NBS, Washington, DC 412 pp.; April, 1977; NBS-BSS-96, PB-265 551/2WE. (TAC: ST 77 37035) Available from NTIS, Springfield, VA 22161 \$4.65 - paper

- Kuvshinov, Yu. Ya., Malyavina, E.G., METHOD FOR DETERMINING DAILY TOTAL HEAT FROM DIRECT SOLAR RADIATION ENTERING STRUCTURE, Kuibyshev Mosco Civil Engineering Institute App. Solar Energy, USSR-English Translation; Volume 9, No. 4, 1973; pp. 113-16.
- Laing, N., DEVICE FOR THE ABSORPTION AND EMISSION OF HEAT, U.S. Patent 3,893,506, July 8, 1975.
- Lamand, T.A., HOW TO MAKE SOLAR CABINET DRYER FOR AGRICULTURAL PRODUCE, BRI D:MG; 12AB0017; 1966; 9 pp., TP ASUSI.
- Lambeth, James, DIRECT GAIN PASSIVE DESIGN, DELAP RESIDENCE, 2nd NPSC, p. 43.
- Lanciault, J.A., SELF-STORING SOLAR HEATER, U.S. Patent 3,823,703, July 16, 1974.
- Lane, G.A., Best J.S., Clarke, E.C., Drake, S.S., Glew, D.N., Quigley, S.W., Rossow, H.E., SOLAR ENERGY SUBSYSTEMS EMPLOYING ISOTHERMAL HEAT SINK MATERIALS. SEMI-ANNUAL PROGRESS REPORT, September 18, 1974 - June 31, 1975; Dow Chemical Company, Midland, Michigan; 25 pp., J1 1975, TID-26901. (TAC: ST 76 42007)
- Landsberg, H.E., SOLAR RADIATION AT THE EARTH'S SURFACE, Solar Energy, Volume 5, No. 3, 1961, p. 95.
- Langenbacker, F., EFFECTS OF CONTROLS ON WATER WALL PERFORMANCE, 2nd NPSC, p. 555.
- Larke, G.R., SOLAR HEATED GREENHOUSE PROJECTS, Citizens for Energy Conservation & Solar Development Inc., Los Angeles, CA; September 30, 1976. (TAC: ST 77 27003)
- Larson, D.C., Ueland, M., SOLAR ATRIUM: A HYBRID SOLAR HEATING AND COOLING SYSTEM, 2nd NPSC, pp. 256.
- Lasar, Stephen, PASSIVE HEATED RESIDENCES, 2nd NPSC, p. 205.
- Lawand, T.A., ENVIRONMENTALLY DESIGNED HOUSING INCORPORATING SOLAR ENERGY, Brace Research Institute Que, Heliotech and Development; Proceedings of the International Conference, Dhahran, Saudi Arabia; November 2-6, 1975, Published by Development Analysis Association, Cambridge, MA, 1975, Volume 2, pp. 210-235.

- Lawand, T.A., Alward, R., Saulnier, B., Brunet, E.,  
DEVELOPMENT AND TESTING OF AN ENVIRONMENTALLY DESIGNED  
 GREENHOUSE FOR COLDER REGIONS, McDonald College of  
 McGill University, Ste. Anne de Bellevue, Quebec,  
Solar Energy V 17:307-312, No. 5, 8 refs, November,  
 1975. (TAC: ST 76 47003)
- Lawand T.A., et al, SOLAR ENERGY GREENHOUSES: OPERATING EXPERIENCES  
 Brace Research Institute, MacDonalld College of McGill  
 University; Ste. Anne de Bellevue, Quebec.
- Lawand, T.A., Malik, M.A.S., Hopley, Alward, R.; Pl;  
INVESTIGATION OF THE CONTRIBUTION OF SOLAR ENERGY IN  
 HEATING GREENHOUSES IN QUEBEC, MacDonalld College of  
 McGill University, Quebec; J. Engine Power; Volume  
 95, No. 2, April, 1973; pp. 114-8.
- Lawrence Livermore Laboratory, RADIATION AND PASSIVE COOLING,  
 Berkeley, California.
- Lebens, Ralph M., A DESIGN TOOL TO ASSESS ROOM AIR TEMPERATURES OF A  
 PASSIVELY HEATED SPACE, 2nd NPSC, P. 549.
- Leckie, Masters, Whitehouse, and Young, OTHER HOMES AND GARBAGE:  
 DESIGN FOR SELF-SUFFICIENT LIVING - SAN FRANCISCO;  
 Sierra Club Books, 1975. Handbook covering archi-  
 tecture, generation of electricity, solar heating,  
 waste-handling systems, agriculture and aquaculture.  
 Available from Charles Scribner's & Sons Book Ware-  
 house, Vreeland Avenue, Totowa, New Jersey 07512  
 302 pages \$9.95.
- Leffler, John, THE THING - A DIRECT GAIN SOLAR HOT WATER HEATER FOR  
 NEW YORK CITY, 2nd NPSC, p. 642.
- Lenchuk, Paul, Ramseur, Richard, NEW INSIGHTS INTO ENERGY USE AND  
 CONSERVATION IN STRUCTURES, National Concrete Masonry  
 Association, McLean, VA CM-227, 1975.
- Lenchuk, Paul, Ramseur, Richard, A COMPARISON OF VERY LIGHTWEIGHT WALLS  
 OF WOOD, METAL AND GLASS VERSUS CONCRETE MASONRY IN  
 ENERGY CONSERVATION, National Concrete Masonry  
 Association, CM - 230, 1976.
- Levin, Dan, A MODEL DESIGN PROCESS FOR PASSIVE SOLAR ARCHITECTURE,  
 2nd NPSC, p. 57.
- Levine, Richard S., INTEGRATIVE DESIGN: THE RAVEN RUN SOLAR HOUSE,  
 2nd NPSC, p. 141.

- Levine, Richard S., "Sundown and Windows." International Solar Energy Society, American Section, Annual Meeting, Denver, CO, August 28-31, 1978. Proceedings. 2 Volumes Available from American Section, International Solar Energy Society, Inc., P.O. Box 1416, Killeen, TX 76541. \$60.00 - paper
- Libbey-Owens-Ford Company, HEAT GAIN CALCULATOR, 811 Madison Avenue, Toledo, Ohio 43695, 1975 \$35.
- Libbey-Owens-Ford Company, SUN ANGLE CALCULATOR, 811 Madison Avenue, Toledo, Ohio 43695, 1975, \$5.
- Libbey-Owens-Ford Glass Company, HOW TO USE SUN'S HEAT IN YOUR POULTRY BUILDINGS, 12AA0015 10 pp., TP ASUSI.
- Libbey-Owens-Ford Glass Company, LOW COST FARM THERMOPANE FOR SOLAR FARM BUILDING, 12AA0011 36 pp., TP ASUSI.
- Libowitz, C.G., METAL HYDRIDES FOR THERMAL ENERGY STORAGE, Materials Research Center, Allied Chemical Corp., Morristown, NJ 07960.
- Lilleleht, L.U., Beard, J.T., Iachetta, F.A., PROCEEDINGS OF THE WORKSHOP ON SOLAR ENERGY STORAGE SUBSYSTEMS FOR THE HEATING AND COOLING OF BUILDINGS, NSF/RA/N-75-041, 191 pp., April 18, 1975, Grant NSF AER-75-06713, Workshop held at Charlottesville, VA, April 16, 18, 1975, sponsored by the American Society of Heating, Refrigerating and Air Conditioning. (TAC: ST 76 42046)
- Lilly, M.L., SINGLE AND MULTIPLE GLASS GLAZING MEDIA IN PASSIVE SOLAR ENERGY CONSTRUCTION, 2nd NPSC, p. 340.
- Lillywhite, Malcolm, EVOLUTION OF THE COMMERCIAL SOLAR RELIANT GREENHOUSE IN THE ROCKY MOUNTAIN REGION, 2nd NPSC, p. 710.
- Lillywhite, Malcolm, A NEW LOOK AT THE SOLAR MARKET-REDUCING SOLAR SYSTEMS COST WITH PASSIVE DESIGN, 2nd NPSC, p. 827.
- Lillywhite, Malcolm, PERFORMANCE OF 40-GALLON SOLAR THERMOSYPHON WATER HEATER SYSTEMS AT HIGH ALTITUDES, 2nd NPSC, p. 651.
- Lior, Noam, A QUANTITATIVE METHOD FOR THE DESIGN OF BUILDINGS WITH COMFORTABLE MICROCLIMATES BY PASSIVE CONTROL OF SOLAR EFFECTS, 2nd NPSC, p. 404.

- Littler, J.G.F., THERMAL BALANCE AT WINDOWS, Martin Centre for Architectural and Urban Studies, Cambridge, England from 1975 International Solar Energy Congress and Exposition, ISES, Rockville, MD. 1975.
- Liu, B.Y.H., and Jordan, R.C., DAILY INSOLATION ON SURFACES TILTED TOWARD THE EQUATOR, ASHRAE Journal, Volume 3, No. 19, 1961, p. 53.
- Liu, B.Y.H., and Jordan, R.C., THE LONG-TERM PERFORMANCE OF FLAT-PLATE SOLAR ENERGY COLLECTORS, Solar Energy, Volume 7, No. 2, 1963, pp. 53.
- Liu, L.Y., AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, 2nd NPSC, p. 106.
- Liu, R.C., Carlson, G.E., CONCEPT FOR USE OF SOLAR ENERGY IN GREENHOUSES, Northwest Regional Agriculture Resident Service, U.S. Department of Agriculture, Beltsville, MD.; Energies, V 1:10-11, No. 5, December, 1975. (TAC: ST 76 47010)
- Lof, G.O.G., Duffie, J.A., and Smith, D.O., WORLD DISTRIBUTION OF SOLAR RADIATION, Report No. 21, Solar Energy Laboratory, College of Engineering, University of Wisconsin, Madison, July, 1966.
- Loftness, Vivian, PROFESSIONAL DESIGN TOOLS - THE BUILDING BLOCKS FOR PASSIVE SOLAR DESIGN, 2nd NPSC, P. 765.
- Loftness, Vivian, REGIONAL GUIDELINES FOR BUILDING PASSIVE SOLAR ENERGY CONSERVING HOMES, AIA/RC, In Press.
- Long, W.E., CONTROLLING ROOF SOLAR HEAT EFFECTS IN BUILDINGS OF SOUTHWEST, TX JS: V2:3 4DE006, 1950 pp. 35-8 TP. ASUSI.
- Lorsch, H.G., LATENT HEAT AND SENSIBLE HEAT STORAGE FOR SOLAR HEATING SYSTEMS, Pennsylvania University National Center for Energy Management and Power, NTIS, May, 1974.
- Lorsch, H.G., THERMAL ENERGY STORAGE FOR SOLAR HEATING AND OFF-PEAK AIR CONDITIONING, Franklin Institute Research Lab., Philadelphia; Kauffman, K.W., Denton, J.C., Energy Conversion V 15:1-8, No. 1 & 2, 12 refs, 1975. (TAC: ST 76 42008).

- Lorsch, H.G., Kauffman, K.W., Denton, J.C., THERMAL ENERGY STORAGE FOR HEATING AND AIR CONDITIONING, Seminar on Future Energy Production Heat and Mass Transfer Problems, Dvbrovnik, Yugoslavia, V 1:69-81, 12 refs, August 25-30, 1975, Publication by Hemisphere Publishing Corp., Washington, DC, 1976. (TAC: ST 77 23032).
- Lorsch, H.G., Niyogi, B., INFLUENCE OF AZIMUTHAL ORIENTATION ON COLLECTIBLE ENERGY IN VERTICAL SOLAR COLLECTOR BUILDING WALLS, Report NSF/RANN/SE GI27976/TR72/18, under NSF/RANN Grant No. GI 27976, Conservation and Better Utilization of Electric Power by Means of Thermal Energy Storage and Solar Heating, August, 1971; University of Pennsylvania, National Center for Energy Management and Power, and Towne School of Civil and Mechanical Engineering, Philadelphia, Pennsylvania, 19104. (TAC: ST 74 50012)
- Los Alamos Scientific Laboratory of the University of California, Los Alamos, New Mexico  
PASSIVE SOLAR HEATING AND COOLING, Conference
- Low, M.J.D., MEASUREMENT OF THE INFRARED SPECTRAL REFLECTION OF SOME COMMON MINERALS AND ROCKS USING MULTIPLE-SCAN INTERFEROMETRY, Applied Optics, V 6:1503, No. 9, September, 1967. (TAC: ST 74 30034)
- Low M.J.D., Coleman, I., MEASUREMENT OF THE SPECTRAL EMISSION OF INFRARED RADIATION OF MINERALS AND ROCKS USING MULTIPLE-SCAN INTERFEROMETRY, Applied Optics, V 5:1453, No. 9, September, 1966 (TAC: ST 74 30033)
- Lowell, Thomas THE WINDOW QUILT INSULATING SHADE, 2nd NPSC, p. 314.
- Loxson, F.M., Rhombs, D.C., PASSIVE NOCTURNAL COOLING IN THE U.S.: A PRELIMINARY ASSESSMENT, 2nd NPSC, p. 687.
- Lukens, A.M., Hamilton, M.E., SOLAR WARMED WATER FOR NEW MEXICO COWS, Engineering Experiment Station Bulletin No. 25, Engineering Experiment Station, University Park, NM, October, 1962.

- Lukes, T., RESEARCH ON THE APPLICATION OF SOLAR ENERGY TO THE FOOD DRYING INDUSTRY, FOURTH QUARTER PROGRESS REPORT, OCTOBER 1, 1974-DECEMBER 31, 1974, California Polytechnic State Univ., San Luis Obispo, 16pp., Dec 1974, NSF/RANN, See ST74-63, 018 for previous report, NP-20468, N75-20888. (TAC: ST76 60005)
- Lumpkins, W., NOTES ON ADOBE CONSTRUCTION FROM THE ENCYCLOPEDIA OF WORLD ART, McGraw-Hill Book Co., Inc., 1972.
- Lund, I.A., RELATIONSHIPS BETWEEN INSOLATION AND OTHER SURFACE WEATHER OBSERVATIONS AT BLUE HILL, MASSACHUSETTS, Air Force Cambridge Research Labs, L.G. Hanscom Field Mass., Rept. No. AFCRL-69-0233, 14pp, Feb 20, 1968, Solar Energy, V 12:95-106, N 1, 1968. (TAC: ST74 22013)
- Macedo, I.C. "AN APPROXIMATE ANALYSIS OF NATURAL CONVECTION SOLAR AIR HEATERS" Cobem 75, Brazilian Congress on Mechanical Engineering, 3rd, Rio de Janeiro, Brazil, December 9-11, 1975, pp 23-31; also in Annales, Universidade Federal, Rio de Janeiro, Vol. B503, 1976, pp. 503-512. Available from Technology Application Center, University of New Mexico, Albuquerque, NM 87131 (ST77 21022)
- Mackey, C.O., and Wright, L.T., Jr., PERIODIC HEAT FLOW--COMPOSITE WALLS OR ROOFS, Heating, Piping and Air-Conditioning; ASHVE Journal Section, June 1946.
- Mackey, C.O., and Wright, L.T., Jr., PERIODIC HEAT FLOW-HOMOGENEOUS WALLS OR ROOFS, Transactions of the Amer. Soc. of Heating and Ventilating Engineers; 1944.
- Madsen, Lund, THERMAL COMFORT MEASUREMENTS, ASHRAE Transactions, Vol. 82, Pt. 1, 1976.
- Maes, Reed E, "A LARGE SCALE NORTHERN CLIMATE SOLAR GARDEN" International Solar Energy Society, American Section, Annual Meeting, Denver, CO, August 28-31, 1978. Proceedings, 20 Vols. Available from American Section, International Solar Energy Society, Inc., P O Box 1416, Killeen, TX 76541; \$60.00 (paper Vol. 1, pp 10-16)
- Malik, M.A.S., Buelow, F.H., HEAT TRANSFER CHARACTERISTICS OF A SOLAR DRIER, McGill Univ., Montreal, 1973, from International Congress, The Sun in the Service of Mankind, CONF-730737-(V).

- Maloney, Tim, FOUR GENERATIONS OF WATERFALL DESIGN, 2nd NPSC, Vol. 2, pp 489-492.
- Manasse, Fred K., and John A. O'Leary, "HELIOPHASE TM SOLAR HOT WATER HEATING SYSTEM"; Vol. 2, pp 36-40.
- Manbeck, H.B., Aldrich, R.A., ANALYTICAL DETERMINATION OF DIRECT VISIBLE SOLAR ENERGY TRANSMITTED BY RIGID PLASTIC GREENHOUSES, Trans. ASAE Vol. 10, No. 4, 1967 pp. 564-567.
- Mancini, T.R., THE EFFECTS OF SELECTED PARAMETERS ON THE HEATING AND COOLING PERFORMANCE OF A PASSIVE SOLAR HOUSE, 2nd NPSC, p. 544.
- Manzano, Juan, Khandanihassam & Buckley Shawn, OTHER ASPECTS OF THERMIC DIODE SOLAR PANELS: COOLING AND TEMPERATURE CONTROL, 2nd NPSC, pp 271-275.
- Mar, N.Y.B., Peterson, R.E., Lin, J.H., OPTICAL COATINGS FOR SOLAR HEATING AND COOLING, Honeywell, Inc., Ctr Syst & Res, Minneapolis, MN; Journal of the Optical Society of America, Vol 67:252, N2; 1977. (TAC: ST77 21039).
- Marakayev, R.Y., ECONOMIC EFFICIENCY OF SUN SHIELDING DEVICES IN INDUSTRIAL CONSTRUCTION, Geliotekhnika (Heliotechnology) V 8:84, N 3, '72. (TAC: ST74 10520).
- Marmon, H.A., FORECASTING DAYTIME TEMPERATURE UTILIZING AVAILABLE SOLAR ENERGY, Weather Bureau Research Station, Fort Huachuca, Arizona, Environ. Sci, Services Admin., Its Western Region Note, N 4 TN-28-WR-4; PB-169385; 24 p. Dec '65, Refs. (TAC: ST74 22017).
- Martin, Marlo, THE RESOURCE FOR RADIATIVE COOLING, 2nd NPSC, p. 684.
- Martinez, Danny, SOLAR-HEATING HOUSE IN MARTINEZTOWN, p. 147, PSHCC.
- Masonry Industry Committee, THE "M" FACTOR: THE USE OF MASS TO SAVE ENERGY IN THE HEATING AND COOLING OF BUILDINGS, 3rd print.
- Massachusetts Institute of Technology, PERFORMANCE CHARACTERISTICS OF THERMIC DIODE SOLAR PANELS, Dept of Agriculture Cambridge, Mass.

- Massdesign, SOLAR HEATED HOUSES FOR NEW ENGLAND, Cambridge, Mass., 67 pp. \$10.00.
- Massie, Camille, EVOLUTION OF THE COMMERCIAL SOLAR RELIANT GREENHOUSE IN THE ROCKY MOUNTAIN REGION, 2nd NPSC, p. 710.
- Mathur, K.N., HEAT STORAGE FOR SOLAR ENERGY SPACE HEATING, Solar Energy, Vol. 6 No. 3, 1962 pp. 110-112.
- Mathur, K.N., and Khanna, M.L., SOLAR WATER HEATERS, UN: Rome E 35-S102.
- Mathur, K.N., USE OF SOLAR ENERGY FOR HEATING PURPOSES, HEAT STORAGE, UN: Rome E 35 Gr-S17.
- Mathur, K.N. et. al., DOMESTIC SOLAR WATER HEATER, Journal of Scientific Industrial Research, 18A, Feb., 1959.
- Mazria, E., THE PASSIVE SOLAR ENERGY BOOK, Rodale Press, Emmanus, Pa., In Press, avail. by Sept. '78 in paper, hardback & professional edition.
- Mazria, E., Baker, M.S. Wessling, F.C., PREDICTING THE PERFORMANCE OF PASSIVE SOLAR HEATED BUILDING, Center for Environmental Research, School of Architecture and Allied Arts, University of Oregon, Eugene OR 97403.
- Mazria, Edward, A DESIGN SIZING PROCEDURE FOR DIRECT GAIN, THERMAL STORAGE WALL, ATTACHED GREENHOUSE, AND ROOF POND SYSTEMS, 2nd NPSC, pp 390.
- Mazria, Edward, Baker, Steven, NOTI SOLAR GREENHOUSE: PERFORMANCE AND EVALUATION, 2nd NPSC, Vol. 1, pp 190-196.
- Mazria, Edward, PREDICTING THE PERFORMANCE OF PASSIVE SOLAR HEATED BUILDINGS: A TWO YEAR STUDY, 2nd NPSC, Vol. 2, pp 393-397.
- McAdams, William H., HEAT TRANSMISSION, McGraw-Hill Book Co., New York, Third Edition 1954.
- McCleary, P., A QUANTITATIVE METHOD FOR THE DESIGN OF BUILDINGS WITH CONFORTABLE MICROCLIMATES BY PASSIVE CONTROL OF SOLAR EFFECTS, 2nd NPSC, p. 404.
- McClintock, Michael, SOLAR SPACE HEAT AND DOMESTIC HOT WATER BY A SYSTEM OPERATING BOTH ACTIVELY AND PASSIVELY, 2nd NPSC, p. 505.

- Morrison, D.J., Abdel-Khalik, S.I., PERFORMANCE OF A SOLAR HEATING SYSTEM UTILIZING PHASE-CHANGE ENERGY STORAGE, Am. Section of the Intl. Solar Energy Society, Cape Canaveral, Fl., 1976.
- Morse, R.N., INSTALLING SOLAR WATER HEATERS, Commonwealth Scientific and Industrial Research Organization, Circular 1, Melbourne, Australia, 1959.
- Morse, R.N., SOLAR WATER HEATERS FOR DOMESTIC AND FARM USE, Commonwealth Scientific and Industrial Research Organization, Engineering Section Report ED 5, Melbourne, Australia 1957.
- Morse, R.N., WATER HEATING BY SOLAR ENERGY, UN: Rome E 35-S38.
- Morse R.N., Kowalczewski, J.J., A RATIONAL BASIS FOR HUMAN THERMAL COMFORT, ASHRAE Journal, Vol. 9, No. 9, 1967.
- Mowry, G.R., SOLAR ENERGY SUPPLEMENTED RURAL-HOME HEAT PUMP, Solar Energy, Vol. 8, No. 1, 1964.
- Mrass, Michael, THE WINDOW QUILT INSULATING SHADE, 2nd NPSC, p. 314. John Muir Publication, THE FOOD AND HEAT PRODUCING SOLAR GREENHOUSE, P.O. Box 613, Santa Fe, NM 1976.
- Mumma, S.A., Marvin, W.C., A METHOD OF STIMULATING THE PERFORMANCE OF A PEBBLE BED THERMAL ENERGY STORAGE AND RECOVERY SYSTEM, ASME Paper 76-HT-73, 6 p., 1976, American Society of Mechanical Engineers and Am Inst of Chem Eng., Heat Transfer conference, St. Louis, MO, Aug. 9-11, 1976, A76-46596. (TAC: ST77 23013)
- Namkoong, D., TEMPERATURE DISTRIBUTION OF A HOT WATER STORAGE TANK IN A SIMULATED SOLAR HEATING AND COOLING SYSTEM, NASA, Lewis Research Center, Cleveland, OH, NASA-TM-X-73549, 17 p., Nov 1976, E-8985, N77-12521/9WE (TAC: ST77 23023).
- Narayanan, Paul, PRELIMINARY ECONOMIC EVALUATION OF GENERIC PASSIVE SOLAR ENERGY SYSTEM/BUILDING APPLICATIONS, 2nd NPSC, p. 699.

McDaniels, D.K., Lowndes, D.H., and Kseh, H.D., GEOMETRICAL ANALYSIS OF REFLECTOR-SOLAR THERMAL COLLECTOR COMBINATIONS, Physics Dept., Univ. of Oregon, Eugene.

McFarland, Michael, THE DESIGN OF LONG-LOOP CONVECTIVE HEAT TRANSFER SYSTEMS FOR SOLAR HEATERS, Zomeworks Albq, NM, ASME Nov. 26-30 Meeting, 1972, 72-WA, Sol. 9. 5 pp, (TAC: ST74 40250). Available from ESL 345, E. 47th St., New York, NY 10017

McFarland, R.D., A SIMPLE EMPIRICAL METHOD FOR ESTIMATING THE PERFORMANCE OF A PASSIVE SOLAR HEATED BUILDING OF THE THERMAL STORAGE WALL TYPE, 2nd NPSC, p. 377.

McFarland, R.D., MONTHLY SOLAR-LOAD RATIO CORRELATIONS FOR ANNUAL PASSIVE SYSTEM PERFORMANCE-SOUTH MASS WALLS, Los Alamos Scientific Laboratory, University of Calif., December 23, 1977, O-11-77-40.

McFarland, Robert D., PASSIVE TESTING OF LOS ALAMOS, 2nd NPSC, p. 602.

McGrew, Jay L., WHAT'S A "U" VALUE?, Applied Science and Engineering, Denver, Colorado, July 1977.

McMordie, R.K., THE USE OF GENERALIZED THERMAL NETWORK ANALYZERS FOR PASSIVE SOLAR ANALYSIS, 2nd NPSC, p. 353.

McNall, Preston E. Jr., Jaax, J., Rohles, F.H. Jr., Nevins, Ralph G., THERMAL COMFORT (THERMALLY NEUTRAL) CONDITIONS FOR THREE LEVELS OF ACTIVITY, ASHRAE Transactions, Vol 73, Pt 1, 1967. Paper 2014, pp 1.3.1-1.3.14.

McNall, Preston E. Jr., Schlegel, J.C., RELATIVE EFFECTS OF CONVECTION, RADIATION HEAT-TRANSFER ON THERMAL COMFORT FOR SEDENTARY AND ACTIVE PERSONS, ASHRAE Transactions, Vol. 74, Pt. 2, 1968

McQuigg, J.D., and Decker, W.L., SOLAR ENERGY: A SUMMARY OF RECORDS AT COLUMBIA, MISSOURI, Missouri Univ. Agr. Exp. Sta. Res. Bull 671, July 1958, 27 pp, Ullus. (TAC: ST74 24028).

Meaklin, John D., APPLICATION OF PHASE CHANGE MATERIALS IN A PASSIVE SOLAR SYSTEM, 2nd NPSC, p. 475.

- Mears, D.R., Kim, M-K, Roberts, W.J., STRUCTURAL ANALYSIS OF AN EXPERIMENTAL CABLE-SUPPORTED AIR-INFLATED GREENHOUSE, Rutgers Univ., State Univ. of New Jersey, New Brunswick ASAE Pap, 68th, Annu Meet, Univ. of California, Davis, Pap 75-4034, 21pp., 7 refs, June 22-25, 1975, Publ by ASAE, St. Joseph, MI. (TAC: ST76 47004)
- Meckler, M., ANALYZING SUNHOOD CONFIGURATIONS FOR SUN CONTROL, Air Conditioning, Heating & Vent., V 64:41-44, N 2, Feb. 1967.
- Meckler, G., INTEGRATED RADIATION CONVECTION COOLING SYSTEM DESIGN AND PERFORMANCE, ASHRAE Journal, Vol. 3, No. 12, 1961; ASHRAE Transactions, Vol 68, 1962.
- Mehalick, E.M., Tweedie, A.T., TWO COMPONENT THERMAL ENERGY STORAGE MATERIAL Final Report, General Electric Co., Space Div., Philadelphia, PA, Nov. 1975, NTIS.
- Melzer, Bruce, Starr, G., AN EVALUATION OF TWO BREADBOXES, 2nd NPSC, pp 627.
- Melzer, Bruce, Starr, G., THE SOLDYNE HOUSE, 2nd NPSC, pp 462.
- Melzer, Bruce, WINDOW COVERINGS, 2nd NPSC, p. 317.
- Michal, C.J., GLAZED AREA, INSULATION AND THERMAL MASS IN PASSIVE SOLAR DESIGN, Total Environmental Action, Inc., Harrisville, NH, 8 p. Avail: Total Environmental Action, Inc., NH. p. 8. (TAC: ST77 31022)
- Michal, C.J., Anderson, B.N., CLIMATE-BASED METHOD OF SOLAR ENERGY HOME DESIGN, (Total Environmental Action, Harrisville, NH), ISES, Rockville, MD., 1975.
- Michel, Charles, SIMPLIFIED SIMULATION TECHNIQUES, 2nd NPSC, Vol. 2 pp 291-293.
- Michel, J., UTILIZATION OF SOLAR ENERGY, L'Architecture D'Aujourd'hui Vol. 167, 1973.
- Michel, Jacques J.P., INTRODUCTION OF SOLAR ENERGY IN ARCHITECTURE AND URBANISM, 2nd NPSC, Vol. 1, pp 20-22.
- Michels, Tim, A LOW COST DATA ACQUISITION AND DATA PROCESSING SYSTEM, 2nd NPSC, p. 452.

- Miley, N., Pierce, R., USER NEEDS VS. TECHNICAL DEMANDS, OR THE ART OF TRADEOFF IN MAKING A GOOD, INEXPENSIVE SOLAR HOME, In Sharing the Sun, Solar Technology in the Seventies; Proceedings of the Joint Conference, Winnipeg, Canada, August 15-20, 1976. Volume 9. (A77-48910 23-44) Cape Canaveral, Fla., International Solar Energy Society, 1976, p. 236-250. (NASA 77A49134).
- Miller, C.B., Stephens, J.B., SOLAR POND Patent Application, NASA, Pasadena Office, CA, N75-27560, NASA-Case-NOP-13581-1; US-Patent-Appli-SN-590975, to NASA JPL Filed June '75 18 pp. (Contract NAS7-100). (TAC: ST75 46008)
- Miller, W.C., THE EFFECTS OF SELECTED PARAMETERS ON THE HEATING AND COOLING PERFORMANCE OF A PASSIVE SOLAR HOUSE, 2nd NPSC, p. 544.
- Millet, M.S., THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, 2nd NPSC, p. 365.
- Mills, C.A., RESIDENTIAL COOLING BY REFLECTIVE RADIATION, ASRE Journal, Vol 58, No 11, 1950.
- Mills, S., HEATING BY SOLAR RADIATION, Australian Bldg. Science & Technology V 7:21-2, N 3, Mar 67. (TAC: ST74 55006)
- Milne, Murray, AN INTERACTIVE COMPUTER-AIDED SYSTEM FOR PASSIVE SOLAR DESIGN, 2nd NPSC, p. 539.
- Mingenbach, William, STRATEGIES AND CONSEQUENCES OF REVERSE JUICE IN PASSIVE SYSTEM DESIGN CONCEPTS, p. 46. PSHCC.
- MIT Dept. of Agriculture, DESIGN METHODOLOGIES FOR ENERGY CONSERVATION AND PASSIVE HEATING OF BUILDINGS UTILIZING IMPROVED BUILDING COMPONENTS, Massachusetts Institute of Technology, Cambridge, MA.
- MIT Dept. of Agriculture, PERFORMANCE CHARACTERISTICS OF THERMIC DIODE SOLAR PANELS, Cambridge, MA
- MIT Energy Laboratory, REPORT OF THE MIT SOLAR ENERGY WORKING GROUP, PROCEEDINGS OF A WORKSHOP HELD IN CAMBRIDGE, MASSACHUSETTS, JULY 14-25, 1975, Cambridge, MA, 02139 \$4.00, 1976.
- Moesta, H., HEATING, COOLING THROUGH THE SUN AND SPACE, Umwelt, Vol. 2 No. 6, Dec. 1972 in German pp. 53-58.

- Molnar, J., SUN LOUVERS CUT 20 TONS OFF A-C LOAD, Heating, Piping & Air Conditioning, V 36:109-112, N 2, Feb 64. (TAC: ST74 50214)
- Monk, C.B., Jr., THERMAL PERFORMANCE OF CLAY MASONRY WALLS, Structural Clay Products Research Found, Geneva, IL.
- Moore, G.L., SIZING OF SOLAR ENERGY STORAGE SYSTEMS USING LOCAL WEATHER RECORDS, ASME, NY 1974, \$3.00. Available from Engineering Societies Library, 345 E 47th St., New York, NY 10017.
- Moore, Gordon L., FITTING A HANDLE AND SCALE ON THERMAL TIME LAG, 2nd NPSC, p. 565.
- Moore, Stanley W., PASSIVE TESTING AT LOS ALAMOS, 2nd NPSC, p. 602.
- Moran, E., SOLAR BATTERY FOR PASSIVE HEATING, Popular Science, V. 210, p. 94, June, 1977.
- Moreland, F.L., ed., ALTERNATIVES IN ENERGY CONSERVATION: THE USE OF EARTH COVERED BUILDINGS, Univ of Texas, Arlington, NSF-RA-760006, Alternatives in Energy Conserv: The Use of Earth Covered Buildings, Proceeds of Conference, Fort Worth, TX, July 9-12, 1975. (TAC: ST77 33071)
- Morgan, Scott & Chloe, Taylor, David & Susan, SOLAR WATER HEATERS & STACK COIL HEATING SYSTEMS: HOT WATER, 350 E. Mountain Drive; Santa Barbara, Calif. April 1975.
- Morgen, R.A., THE HEAT PUMP, Solar Energy Research pp. 69-70.
- Morris, David, MUNICIPAL ENERGY INDEPENDENCE, 2nd NPSC, p. 874.
- Morris, W. Scott, NATURAL CONVECTION SOLAR COLLECTORS. 2nd NPSC, p. 596.
- Morris, W. Scott, WINDOW-MOUNTED SOLAR COLLECTOR, January 1977, P O Box 4815, Santa Fe, NM 87501.
- Morrison, C.A., Farber, Erich, DEVELOPMENT AND USE OF SOLAR INSOLATION DATA FOR SOUTH FACING SURFACES IN NORTHERN LATITUDES, ASHRAE Transactions, Vol. 80, Pt 2, 1974.
- Morrison, C.A., Wheeler, J.M., Jr., Farber, Erich, AN EXPERIMENTAL DETERMINATION OF SHADING COEFFICIENTS FOR SELECTED INSULATING REFLECTIVE GLASSES AND DRAPERIES, ASHRAE Transactions, Vol. 82, Pt. 1, 1976.

- Nash, R.T., and Williamson, J.W., TEMPERATURE STABILIZATION IN GREENHOUSES, Vanderbilt Univ., from 1975 International Solar Energy Congress and Exposition, ISES; Rockville, MD., 1975.
- National Concrete Masonry Association, PICTORIAL, 6845 Elm St. McLean VA 22101.
- National Passive Solar Conference, 2nd, University of Pennsylvania, Philadelphia, March 16-18, 1978. Passive Solar: State of the Art, 3 vols. Available from Mid-Atlantic Solar Energy Association, 2233 Gray's Ferry Ave., Philadelphia, PA 19146. \$20.00 (paper) partial contents.
- National Solar Heating and Cooling Information Center, STATE SOLAR LEGISLATION, Rockville, MD.
- NCMA-TEK #12, ESTIMATING U-FACTORS FOR CONCRETE MASONRY CONSTRUCTION, National Concrete Masonry Association, 1969.
- NCMA-TEK #26, THERMAL COMFORT IN HOUSING WITH CONCRETE MASONRY UNITS, National Concrete Masonry, McLean, VA, 1971.
- NCMA-TEK #38, THERMAL INSULATION OF CONCRETE MASONRY WALLS, National Masonry Association, McLean, VA, 1972.
- NCMA-TEK #58, ENERGY CONSERVATION WITH CONCRETE MASONRY, National Concrete Masonry Association, McLean, VA, 1974.
- NCMA-TEK #67, TABLES OF U-VALUES FOR CONCRETE MASONRY WALLS, National Concrete Masonry Association, McLean, VA 1975.
- NCMA-TEK #68, NEW FINDINGS OF ENERGY CONSERVATION WITH CONCRETE MASONRY, National Concrete Masonry Association, McLean VA 1975.
- NCMA-TEK #82, ENERGY CONSCIOUS DESIGN FOR BUILDINGS, National Concrete Masonry Assn., McLean, VA 22101, 1976.
- NCMA-TEK #90, CONCRETE MASONRY IN PASSIVE SOLAR BUILDINGS, National Concrete Masonry Assoc., NCMA-TEK #90, McLean, VA 22101, 1977.
- NATO Science Committee, PROCEEDINGS OF A NATO SCIENCE COMMITTEE CONFERENCE ON THERMAL ENERGY STORAGE (TES), Energy (Oxford), V2:53-101, N1, Mar 1977.
- Nelson, Lynn, DESIGN OF A LOW COST SOLAR HABITAT, 2nd NPSC, p. 761.

- New Mexico Solar Energy Association, USE OF SOLAR ENERGY FOR HEATING WATER, Santa Fe, NM.
- New Mexico Solar Energy Association, THIRD ANNUAL LIFE-TECHNICS CONFERENCE, Ghost Ranch Conference Center, Oct. 12 & 13, 1974; New Mexico Solar Energy Association.
- Newton, Alvin B, UTILIZATION OF NATURAL HEATING & COOLING EFFECTS, PAT:2,342,211 4A0028 1944 7P ASUSI.
- Nichols, Larry, PASSIVE SOLAR COLLECTOR WALL INCORPORATING PHASE CHANGE, 2nd NPSC, p. 485.
- Nichols, Wayne, Unt 1, FIRST VILLAGE, p 137, PSHCC.
- Nichols, Wayne D., MARKETING THE PASSIVE SOLAR HOME, 2nd NPSC, Vol. 3, pp 704-709.
- Niles, P.W.B., THERMAL EVALUATION OF A HOUSE USING A MOVABLE-INSULATION HEATING AND COOLING SYSTEM, California Polytechnic State University, San Luis Obispo, CA, Solar Energy V 18:413-419, N5, 1976, International Solar Energy Society, International Solar Energy Congress and Exposition, Los Angeles, CA, Los Angeles, CA, July 28-Aug 1, 1975, U.S. Department of Housing and Urban Development, HUD-H-22026R, A77-12407, (TAC: ST77 33015)
- Niles, Philip, A PASSIVE SOLAR HOUSE BASED ON BALANCED DIRECT GAIN HEATING AND NIGHT VENTILATION COOLING, 2nd NPSC, p. 133.
- Niles, Philip, W.B., A SIMPLE DIRECT GAIN PASSIVE HOUSE PERFORMANCE PREDICTION MODEL, 2nd NPSC, Vol. 2, pp 534-538.
- Niles, Phillip, MODELING THE ATASCADERO HOUSE, p. 183 PSHCC.
- Niles, Phillip, Haggard, Kenneth, Hay, Harold, NOCTURNAL COOLING AND SOLAR HEATING WITH WATER PONDS AND MOVABLE INSULATION, ASHRAE Journal, Vol. 82, Pt. 1, 1976.
- Nielsen, C.E., SALT-GRADIENT SOLAR PONDS FOR SOLAR ENERGY UTILIZATION, Ohio State Univ., Environ. Conserv. Vol. 2 No. 4, Winter 1975.
- Norris, D.J., SOLAR RADIATION ON INCLINED SURFACES, Solar Energy, V 10:72-76, N 2. (TAC: ST74 20040)

- Nevins, R.G., ENERGY CONSERVATION, COMFORT, ACCEPTABILITY AND HEALTH, Yale University, New Haven, CT, Inst of Refrig Air Cond and Heat, Fed Conf, Brisbane, Queensland, Australia, 14 pp, 18 refs, April 29-May 3, 1974. Publ by AIRAH, Queensl Div., Brisbane, Australis, 1974. (TAC: ST76 50087). Available from Technology Application Center, University of New Mexico, Albuquerque, NM 87131.
- Nevins, Ralph G., Feyerherm, A.M., EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART IV--COLD FLOORS, ASHRAE Transactions, Vol. 73, Pt. 2, 1967.
- Nevins, Ralph G., Gagge, A.P., THE NEW ASHRAE COMFORT CHART, ASHRAE Journal, Vol. 14, No 8, May 1972, pp 41-43.
- Nevins, Ralph G., Gonzalez, R.R., Nishi, Yasunobu, Gagge, A.B., EFFECT OF CHANGES IN AMBIENT TEMPERATURE AND LEVEL OF HUMIDITY ON COMFORT AND THERMAL SENSATIONS, ASHRAE Transactions, Vol. 81, Pt. 2, 1975.
- Nevins, Ralph G., Gorton, Robert L., Bridgers, Frank H, THERMAL COMFORT CONDITIONS, ASHRAE Journal, Vol. 16, No. 1, 1974.
- Nevins, Ralph G., Michaels, K.B., Feyerherm, A.M., EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART I--COLLEGE AGE MALES, ASHRAE Transactions, Vol. 70, 1964.
- Nevins, Ralph G., Rohles, F.H., Jr., Springer, W.E., Feyerherm, A.M., A TEMPERATURE HUMIDITY CHART FOR THERMAL COMFORT OF SEATED PERSONS, ASHRAE Transactions, Vol 72, Pt. 1, 1966; ASHRAE Journal Vol 8, No. 4, 1966.
- Nevins, Ralph G., Springer W.E., Feyerherm, A.M., Michaels, K.B., EFFECT OF FLOOR SURFACE TEMPERATURE ON COMFORT, PART III THE ELDERLY, ASHRAE Transactions, Vol. 72, Pt. 1, 1966.
- Neubauer, L.W., HOUSE COOLING IN WARM DRY CLIMATES, Progress Report No. 2, 4D10018, 1955, 3pp TP, ASUSI.
- New Mexico Solar Energy Association, BULLETIN, August, 1976, Vol. 1, No. 1.
- New Mexico Solar Energy Association, BULLETIN, Vol, 2, No. 11, November, 1977.
- New Mexico Solar Energy Association, BULLETIN, Oct, 1977; Vol. 11, No. 10.
- New Mexico Solar Energy Association, HOW TO BUILD A SOLAR CROP DRYER, Santa Fe, NM.

- Ohanessian, P., THERORETICAL PERFORMANCE OF A NATURAL SOLAR ENERGY COLLECTION SYSTEM FOR HOUSE HEATING CHART, W.W.S., Univ. of Melbourne, Parkville, Victoria 2052, Australis; From 1975 International Solar Energy Congress and Exposition; ISES, Rockville, MD, 1975.
- Olcott, M., AT LAST: A BEAUTIFUL SOLAR HOME, Mother Earth News, Vol. 43, 1977 pp. 68-70.
- Olgay, A., Telkes, M., SOLAR HEATING FOR HOUSES, Prog. Archit., Mar. 1959.
- Olgay, Aladar, "DESIGN CRITERIA FOR SOLAR HEATED HOUSES", United Nations Conference on New Sources of Energy: Solar Energy, Wind Power and Geothermal Energy, Rome, 21-31 August 1961. Proceedings, Vol. 5, Solar Energy II, pp 199-205. New York: United Nations, 1964. 1974 reprint available from United Nations Publications, Sales Section, Room A-3315, New York, NY 10017. (#E/F.63.1.39.)
- Olgay, Aladar and Victor, SOLAR CONTROL AND SHADING DEVICES, Princeton University Press, 41, William St., Princeton, NJ 08540, 1957, 1976.
- Olgay, Victor, DESIGN WITH CLIMATE: BIOCLIMATIC APPROACH TO ARCHITECTURAL REGIONALISM, Princeton Univ. Press, Princeton, NJ, 41, William St., 1973, 190 pp. Influence of climate on building principles, the establishment of an analytical process.
- Olkowski, W.H., BIO-SOLAR SYSTEMS IN URBAN AREAS, 2nd NPSC, p. 870.
- Ong, K.S., AN IMPROVED COMPUTER PROGRAMME FOR THE THERMAL PERFORMANCE OF A SOLAR WATER HEATER, Engineering Faculty, University of Malaya, Kuala Lumpur 22-11, Malaysia.
- Owens, P.G.T., SOLAR CONTROL PERFORMANCE OF OPEN AND TRANSLUCENT LOUVER SYSTEMS, Pilkington Bros., St. Helens, Lancs, Engl. ASHRAE Transactions V80 Part 2, p. 324-341, 13 refs, Pap 2327, 74. (TAC: ST75 50211)
- Ozisik, Mecati, Schutrum, L., HEAT GAIN THROUGH WINDOWS SHADED BY CANVAS AWNINGS, REP:H, PLAIR: 5-58 4D10019, 1958 P159-66 TP. ASUSI.
- Ozisik, N., Schutrum, L.F., HOW DRAPES AFFECT HEAT-GAIN AS TESTED WITH REGULAR AND HEAT-ABSORBING GLASS, ASHRAE Journal, Vol. 2, No. 6, 1960.

- Oztoker, U., Selcuk, M.K., THEORETICAL ANALYSIS OF A SYSTEM COMBINING A SOLAR STILL WITH A CONTROLLED-ENVIRONMENT GREENHOUSE, A.S.M.E., New York, 1971.
- Page, J.K., THE ESTIMATION OF MONTHLY MEAN VALUES OF DAILY TOTAL SHORT WAVE READITION ON VERTICAL AND INCLINED SURFACES FROM SUNSHINE RECORDS FOR LATITUDES 40 N-40 S', UN: Rome, Vol 4, p. 387.
- Page J.K., SOLAR ENERGY AND ARCHITECTURE, Royal Institution of Great Britain, Proceedings, V 47:303-348, 13 refs, 1974, A75-31698. (TAC: ST76 50057).
- Palmiter, Larry, Bill Caswell and Bob Corbet, "MEASURED AND MODELED PASSIVE PERFORMANCE IN MONTANA" Vol. 2, pp 59-63.
- Palmiter, Larry, PERFORMANCE OF PASSIVE TEST UNITS IN BUTTE, MONTANA, 2nd NPSC, p. 591.
- Panzhauser, E., THE STRUCTURAL DESIGN OF SOLAR HOUSES REPRESENTED WITH THE AID OF THE AUSTRIAN SOLAR HOUSE AS AN EXAMPLE, Fantl, K., Deutsche Gesellschaft fuer Sonnenergie, Graefelfing, West German, p. 197-216, 1976, In Solar Heating; Meeting, 1st, Goettingen, West German, Feb 23, 24, 1976, Reports, A76-45301 23-44, A76-45311, In German. (TAC: ST77 33016)
- Parmelee, G.V., Aubele, W.W., SOLAR ENERGY TRANSMITTANCE OF EIGHT-INCH HOLLOW GLASS BLOCK, Heat, Piping, Air Cond V 21:111-12-, Sept. 1949. EDB-77:060613. (TAC: ST77 35013).
- Parmelee, G.V., and Vild, D.J., and Erickson, M.L., PERIODIC HEAT FLOW THROUGH FLAT ROOFS, ASHVE Transactions Vol 61, '55--ASHVE Journal Vol 27, No 7, '55.
- Pascale, Ralph, HYBRID SOLAR GREENHOUSE AT CATE FARM, 2nd NPSC, p. 185.
- Passive Solar Heating and Cooling Conference and Workshop, Albuquerque, NM, May 18-19, 1976. Proceedings, Washington, D.C.: U.S. Government Printing Office, 1977. Available from National Technical Information Service, U.S. Dept. of Commerce, Springfield, VA 22161. 355 pp. \$10.50 (paper). Partial contents.
- Pearson, James, E., THE HAWAIIAN ENERGY HOUSE, Department of Architecture, University of Hawaii, 1975.
- Peavy, Bradley A., et. al., DYNAMIC THERMAL PERFORMANCE OF AN EXPERIMENTAL MASONRY BUILDING, U.S. Dept. of Commerce, National Bureau of Standards, Washington, DC, 1973.

- Peck, John F., et. al. "PASSIVE FORMS OF THE CLEARVIEW SOLAR COLLECTOR"  
Vol. 2, pp 180-186.
- Pedersen, C.O. and Houen, E.D., THE THERMAL RESPONSE FACTOR METHOD AND BUILDING ELEMENTS CONTAINING AIR CAVITIES, from Urbana, U. of Ill., Symposium, Paris, France, June, 1974.
- Pennington, C.W., CONTROL FOR SOLAR HEAT GAIN THROUGH BUILDING FENESTRATION, ASME 69-Wa/Sol ASME Winter Meeting, 1969.
- Pennington, C.W., HOW LOUVERED SUN SCREENS CUT COOLING, HEATING LOADS, Heating, Piping & Air Conditioning, V 40:87-90, N 12, Dec 68. (TAC: ST74 50244)
- Pennington, C.W., THE SHADING OF SUNLIT GLASS, ASHRAE JOURNAL, Vol. 8, No. 4, 1966.
- Pennington, C.W., McDuffie, D.E., Jr., EFFECT OF INNER SURFACE AIR VELOCITY AND TEMPERATURE UPON HEAT-GAIN AND LOSS THROUGH GLASS FENESTRATION, ASHRAE Transactions, Vol 76, Pt. 2, 1970.
- Pennington, C.W., Moore, G.L., MEASUREMENT OF SOLAR OPTICAL PROPERTIES OF GLAZING MATERIALS, ASHRAE Journal, Vol 13, No 7, 1971.
- Pennington, C.W., Morrison, C.A., Ingley, H.A., ANALYSIS OF DOUBLE-DRAPED FENESTRATION CONFIGURATIONS, ASHRAE Transaction, Vol. 82, Pt 1, 1976.
- Pennington, C.W., Smith, W.A., Farber, E, Reed, J.C., EXPERIMENTAL ANALYSIS OF SOLAR HEAT GAIN THROUGH INSULATING WITH GLASS INDOOR SHADING, ASHRAE Transactions, Vol 70, 1964; ASHRAE Journal, Vol 6, No. 2, 1964.
- Perry, Joseph, THE WALLASEY SCHOOL, p. 223, PSHCC.
- Perry, R.L., REDUCING NIGHT HEAT LOSSES AND DAYTIME SOLAR EXTREMES IN GREENHOUSES, Univ. of California, Riverside, ASAE Pap, 68th Annu Meet, Univ. of California, Davis, Pap 75-4021, 26 pp, June 22-25, 1975, Publ by ASAE, St. Joseph, MI, 1975. (TAC: ST76 60011).
- Peterson, W.H., Hellickson, M.A., SOLAR-ELECTRIC DRYING OF CORN IN SOUTH DAKOTA, S.D. State Univ. Brookings, 17pp., 13 refs., ASAE Pap, 68th Annual Meet, Univ of Calif., Davis, June 22-25, 1975 Pap 75-3003, Publ by ASAE, St. Joseph, MI, 1975. (TAC: ST76 60011).

- Peube, J.L., HEAT TRANSFER AND THERMAL ENERGY TRANSPORT-GEOSTORAGE, Hewitt, G.F., Eckert, E.R.G., Hahne, E., Hoffman, H.W., Le Goff, P., Sandner H., Stephenson, D., Kurti, N., p. 35-48, 1976, In Thermal Energy Storage; NATO Science Committee Conference, Turnberry, Scotland, Mar 1-5, 1976, Report, Brussels, NATO, A76-45543 23-44, A76-45547. (TAC: ST77 23016)
- Peuches, I., SPECIAL GLASSES AND MOUNTINGS FOR THE UTILIZATION OF SOLAR ENERGY, UN: Rome, E S91.
- Pfister, Peter John, THE LINDBERG RESIDENCE: A DOE FUNDED HYBRID SOLAR HOUSE, 2nd NPSC, Vol. 1, pp 122-127.
- Pfister, Peter John, REPORT OF THE SOLAR PASSIVE SUBCOMMITTEE FOR THE MINNESOTA ENERGY AGENCY: REVIEW AND UPDATE, 2nd NPSC, p. 741.
- Phillips, J.D., ASSESSMENT OF A SINGLE FAMILY RESIDENCE SOLAR HEATING SYSTEM IN A SUBURBAN DEVELOPMENT SETTING, Colorado Springs Dept. of Public Utilities, CO, NSF/RA/N-75/, 078, 244 p., J1 10, 1975, PB-246 141/6WE. (TAC: ST76 55035)
- Phillips, W.F., Cook, R.D., NATURAL CIRCULATION FROM A FLAT PLATE COLLECTOR TO A HOT LIQUID STORAGE TANK, Utah State Univ., Logan, ASME Pap N75-HT-53 for Meet 5pp 4 refs Aug. 1975. (TAC: ST75 40211). Available from Eng. Societies Library, 345 E 47th St., NY, NY 10017.
- Phillips, W.F., HOT LIQUID ENERGY STORAGE SYSTEM UTILIZING NATURAL CIRCULATION, Utah State Univ., Logan; Pate, R.A. ASME Pap N74-WA/HT-16, 8 pp 3 refs, Nov 1974, (TAC: ST75 42004).
- Picha, K.G., and Villanueva, Jose, NOCTURNAL RADIATION MEASUREMENTS ATLANTA, GEORGIA, Solar Energy Journal, Vol. 6, No 4, 1962.
- Pilkington Glass, SOLAR HEAT GAIN THROUGH WINDOWS, Environmental Advisory Services, April 1974, 8 pp.
- Pinney, Neil, A NEW NOCTURNAL AIR COOLING SYSTEM, 2nd NPSC, p. 670.
- Pinney, Neil, AIA, Selkowitz, Stephen-ISES, Stenhouse, Douglas-AIA, ENERGY ENVELOPE SYSTEM, Earth Life Systems Design 136 13th St., Seal Beach, California 90740, June 1974.

- Proskiw, G., METHODOLOGY FOR THE DETERMINATION OF OVERALL HEAT LOSSES AND THERMAL INERTIA FROM EXPERIMENTS ON COMPLETED HOUSES, Northern Housing Committee, Univ. of Manitoba, Winnipeg, Manitoba; 1976.
- Prowler, Don, TESTING AND SIMULATION OF PASSIVE SOLAR SYSTEMS, 2nd NPSC, p. 581.
- Puskas, J., HEAT ACCUMULATION OF GLAZINGS BY DIFFUSE SOLAR RADIATION, Slow Tech. Hochsch, Bratislava, Czech. HLH Heiz. Lueftung Klim Haustech, Vol. 25 No. 6, June 1974 pp. 179-181 In German with English abstract.
- Putnam, Barbara, PASSIVE COST AND PERFORMANCE COMPARISONS, 2nd NPSC, p. 800.
- Puustjarvi, V., ENERGY IN GREENHOUSE CULTURE IN FINLAND, Peat Research Inst., Riihikallio, Finland, Jan 1976, Low-Grade Heat: A Resource in Cold Climates, Vol. 1, Gay, B., La Croix, M.J.B., Ophel, I.L., Eds.
- Quigley, Rob Wellington, THE THIRD OVERLAY, 2nd NPSC, p. 241.

- Pittinato, G.F., THE ELIMINATION OF CONTROL OF MATERIAL PROBLEMS IN WATER HEAT PIPES, SEMI-ANNUAL REPORT COVERING THE PERIOD FROM JANUARY 1 TO JUNE 30, 1974, McDonnell Douglas Astronautics Co., Huntington Beach, CA; July 31, 1974; NTIS, \$3.75.
- Pittinger, A.L., ENERGY ROOF, Nov. 30, 1976; Patent, U.S. Patent, 3,994,278, EDB-77:060656. (TAC: ST77 30156)
- Pittinger, Lincoln, White, W., Yellott, J., THE ENERGY ROOF: A NEW APPROACH TO SOLAR HEATING AND COOLING, 2nd NPSC, pp 218.
- Place Wayne, "THE SOLAR RESOURCE: MOTION AND AMPLITUDE" National Passive Solar Conference, 2nd University of Pennsylvania, Philadelphia, March 16-18, 1978. Passive Solar: State of the Art. 3 Vols. Available from Mid-Atlantic Solar Energy Association, 2233 Gray's Ferry Ave., Philadelphia, PA 19146. Vol. 3, pp 769-772.
- Pleijel, G.V., and Lindström, B.I., STAZIONE ASTROFISICA SVEDESE-A SWEDISH SOLAR-HEATED HOUSE AT CAPRI, UN: Rome, E35--S49.
- Pohl, Jens, AN OFFICE BUILDING FOR AN ERA OF TRANSITIONS: APPLICATION OF THE SKYTHERM SYSTEM OF PASSIVE HEATING AND COOLING TO A MODERATE DENSITY OFFICE BUILDING, 2nd NPSC, p. 223.
- Portola Institute, ENERGY PRIMER, Fricke-Parks Press, Inc., 1974.
- Pozin, G.M., SOLUTION OF THE SYSTEM OF HEAT BALANCE EQUATIONS FOR HOTOUSES IN THE UNSTEADY REGIME, (Gipronisel 'prom) Appl. Solar Energy, USSR-Engl. Transl. Vol. 7 No. 2, 1971 pp. 55-61.
- Prata, Salgado A., STUDY OF SOLAR DRYING HOTOUSE, EXTR:ELECTRI: 4-64 12AB0013;1964 P224-229 TP; ASUSI.
- Price, Travis, LOW-TECHNOLOGY SOLAR HOMES THAT WORK WITH NATURE: Popular Science, Vol. 209, pp 95-98, Dec. 1976.
- Price, III, Travis L., THE EDDY ADDITION: A NEW ENGLAND HYBRID, 2nd NPSC, p. 111.
- Price, III, Travis L., SOCIAL CONCERNS FOR SOLAR APPLICATIONS FOR CITIES, 2nd NPSC, p. 885.
- Proskiw, G., EXPERIMENTAL DETERMINATION OF HEAT LOSSES THROUGH SEVEN TYPICAL WINDOW UNITS, Northern Housing Committee, University of Manitoba, Winnipeg, 1976.

- Rabbimov, R.G., Umarov, G. Ya., Zakhidov, R.A., SOLAR ENERGY STORAGE IN LAYERS OF SANDY GRAVEL, Geliotekhnika, (Heliotechnology), V 7:57, N 5, '71. (TAC: ST74 42010)
- Rabbimov, R.T., Zakhidov, R.A., Umarov, G.Ya., EXPERIMENTAL STUDY OF AQUIFER HEATING IN SOLAR-ENERGY ACCUMULATION, Starodubtsev Physicotechnical Institute of the Uzbek SSR Academy of Sciences, Appl. Solar Energy USSR-Engl. Transl. Vol. 10 No. 2, 1974.
- Rabl, A., Nielsen, C.E., SOLAR PONDS FOR SPACE HEATING, Sol Energy, V17 N1, p. 1-12, 25 refs, Ap 75. (TAC: ST75 46007)
- Ramsey, W.W., Consulting Engr., DESIGNED FOR DIRECT SOLAR HEATING, (St. Joseph, Mich.), V 9:127-9, N 11, Nov 1957. (TAC: ST74 55010)
- Randall, C.M., SOURCES OF INSOLATION DATA, Aerosp Corp., El Segundo, CA, SPIE Semin Proc. V 68:23-28, 10 refs, 1975, Opt in Sol Energy Util, for Meet, San Diego, CA, Aug 21-22, 1975. (TAC: ST76 2430)
- Randerson, D., COMPARISON OF THE SPECTRAL DISTRIBUTION OF SOLAR RADIATION IN A POLLUTED AND A CLEAR AIR MASS, J. Air Pollut. Contr. Assoc, V 20:546-49 N 8, Aug '70, (TAC: ST74 23021)
- Rapp, D., Hoffman, A.A.J., ON THE RELATION BETWEEN INSOLATION AND CLIMATOLOGICAL VARIABLES I-ANALYSIS OF INSOLATION PATTERNS AT FORT WORTH, TEXAS, NSF AER-74-17139A01, Energy Conversion, V 16:1-11, N1-2, 1976, A76-47434. (TAC: ST77 37008)
- Rau, Hans, Ed., SOLAR ENERGY, New York: MacMillan, 1964, 171 pp. \$9.95.
- Redmond, Thomas B., Hotling, William W. Jr., CONCRETE MASONRY,-THE ENERGY CONSERVING CONSTRUCTION MATERIAL, The Construction Specifier, CSI, Washington, D.C., July 1977.
- Remillard, Richard V., Hauer, C.R., Nichols, L., PASSIVE SOLAR COLLECTOR WALL INCORPORATING PHASE CHANGE, 2nd NPSC, p. 485.

- Rensselaer Polytechnic Institute, EVALUATION OF ENERGY FLOW CONTROL TECHNIQUES FOR PASSIVE HEATING AND COOLING SYSTEMS, Center for Architectural Research, Rensselaer, N.Y.
- Reynolds, John S., OREGON SOLAR INCENTIVE PROGRAM: PASSIVE SYSTEMS, 2nd NPSC, p. 745.
- Rhombs, D.G., PASSIVE NOCTURNAL COOLING IN THE U.S.-A PRELIMINARY ASSESSMENT, 2nd NPSC, p. 687.
- Rice, Fred H., SUNERGY LOUVER DRAPE--A UNIQUE PASSIVE SOLAR HEAT COLLECTOR AND REFLECTOR, Fred Rice Prod. Inc., Van Nuys, Calif Sharing the Sun; Solar Technology in the Seventies, Energy Soc of Can. Soc, Am Sect. Cape Canaveral, Fla, 1976 v 4 p 27-29.
- Richards, C.H., A PASSIVE SOLAR SIMULATION FOR GENERAL USE, 2nd NPSC, p. 349.
- Richter, R., SOLAR COLLECTOR THERMAL POWER SYSTEM, VOLUME 2: DEVELOPMENT, FABRICATION, AND TESTING OF FIFTEEN FOOT HEAT PIPES, Xerox Electro-Optical Systems, Pasadena, Calif. N75-19340, Contract F33615-72-C-1092; AF Proj. 3145 AD-A0000941; Rep-4074-Vol-2; AFAPL-TR-74-89-2; 198 pp, refs, 3 Vol, Nov 74 (TAC: ST75 41206)
- Risley, Douglas S., VENTILATED WALL, PAT: 2,703,442, 4DD0004 1955 4P TP ASUSI.
- Roach, Fred, Scott Noll, and Shaul Ben-David, "THE COMPARATIVE ECONOMICS OF PASSIVE AND ACTIVE SYSTEMS: RESIDENTIAL SPACE HEATING APPLICATIONS" Vol 2, pp 537-542.
- Roberts, James D., HYBRID COOLING METHODS-NIGHTTIME COOLDOWN OF BUILDING MASS AND NIGHT-SKY EVAPORATIVE/RADIATIVE COOLING, 2nd NPSC, p. 658.
- Roberts, Rod, A NEW LOOK AT THE SOLAR MARKET-REDUCING SOLAR SYSTEMS COST WITH PASSIVE DESIGN, 2nd NPSC, p. 827.
- Robinson, N., and Neeman, E., THE SOLAR SWITCH, AN AUTOMATIC DEVICE FOR ECONOMIZING AUXILIARY HEATING OF SOLAR WATER HEATERS, UN: Rome E 35-S31.
- Robinson, N., SOLAR RADIATION, Elsevier Publishing Co., Amsterdam N.Y., 1966.
- Rogers, B., USING NATURE TO HEAT-AND COOL, Building Systems Design, Oct.-Nov., 1973, Vol. 70 No. 7 pp 11-15.

- Rogers, B.T., and Baer, Steve, CLIMATICALLY ADAPTED STRUCTURES, pp 117, PSHCC.
- Rogers, Buck, SOLAR AIR HEATER, Alternate Sources of Energy, No. 14, pp 26, May 1974.
- Rogers, William, SIMULATION OF THE THERMAL BEHAVIOR OF A ROOF-POND TYPE RESIDENCE, 2nd NPSC, p. 560.
- Rohles, F.H., Jr., MODAL COMFORT ENVELOPE, A NEW APPROACH TOWARD DEFINING THERMAL ENVIRONMENT IN WHICH SEDENTARY MAN IS COMFORTABLE, ASHRAE Transactions, Vol 76, Pt. 1, 1970.
- Rohles, F.H., Jr., Woods, James E., Nevins, Ralph G., THE INFLUENCE OF CLOTHING AND TEMPERATURE ON SEDENTARY COMFORT, ASHRAE Transactions, Vol 79, Pt. 2, 1973.
- Rollm and Haas Company, Plastics Engineering Laboratory, SKYLIGHT PROGRAM COMPUTER OUTPUT Influence of Skylights on Building Energy Systems; 4 pp.
- Rosenfeld, A.H., STUDIES OF EVAPORATIVE AND CONVENTIONAL COOLING OF AN ENERGY CONSERVING CALIFORNIA HOUSE, 2nd NPSC, p. 665.
- Ross, R.S., THIN FILMS IN ENERGY SYSTEMS, Kent State University, OH, Bicentennial of Materials, Azusa, CA, V8, 1976, Society for the Advancement of Materials and Process Engineering, EDB-77:041575 (TAC: ST77 20024)
- Rouvier, A., REFLECTING GLASSES: ESTHETIC AND COMFORT ELEMENT IN THE DWELLING, Saint Gobain Industries, Neuilly, France, from International Congress, The Sun in the Service of Mankind, 3:313:200 In French
- Roux, A.J.A., PERIODIC HEAT FLOW THROUGH BUILDING COMPONENTS...UNDER WINTER CONDITIONS, CSIR RR:DR7 4DD6 1950 30p Tp ASUSI.
- Ruch, M.A., Grover, G.M., HEAT PIPE THERMAL RECOVERY UNIT APPLICATIONS Q-Dot Corp., Dallas, TX, In ESA Heat Pipes, pp 439-449, See N76-32374 23-31, N76-32411. (TAC: ST77 32020)
- Ruddy, W., ENERGY STORAGE USING BUILDING HEAT CAPACITY GROUP REPORT, Univ. of Pittsburgh, ASHRAE, New York 1975.

- Rzaev, P.F., CALCULATION OF HEAT LOSSES FROM A SOLAR HOTHOUSE THROUGH A TRANSPARENT BARRIER, Lab. for the Utilization of Wind Power and Solar Energy as Azssr; Applied Solar Energy USSR-Engl. Translation Vol. 1, No. 6, 1975, pp 31-36, (ERDA/DOE 802)
- Rzaev, P.F., Kurbanova, R.B., QUASI-STABLE HEAT TRANSFER PROCESSES IN SOLAR HOTHOUSE FOUNDATIONS, Lab. for the Utilization of Solar and Wind Energy as Azssr; Appl Solar Energy USSR-Engl. Transl. Vol. 2 No. 1, 1977, pp. 39-40.
- Sabine, H.J., Lacher, M.B., Flynn, D.R., Quindry, T.L., ACOUSTICAL AND THERMAL PERFORMANCE OF EXTERIOR RESIDENTIAL WALLS, DOORS, AND WINDOWS, Owens-Corning Fiberglass Corp., Granville OH, Natl Bur Stand Building Sci Ser, 158 pp, 130 refs, N77, Nov 1975. (TAC: ST76 50023)
- Sadler, G.W., MEASUREMENT OF APPARENT SOLAR CONSTANT AND APPARENT EXTINCTION COEFFICIENT AT EDMONTON (ALBERTA) CANADA, SOLAR ENERGY, V 13:35-41, N 1, 1970. (TAC: ST74 24034)
- Safdari, Y.B., RADIATION HEATING THROUGH TRANSPARENT AND OPAQUE WALLS, REPR:SOL EN:V10 M1:1966 4B0120 1966 P53-8 TP. ASUSI.
- Sandia Labs, ESTIMATING THE DIRECT COMPONENT OF SOLAR RADIATION, Albq. N.M. 1975.
- Sandia Laboratories, PASSIVE SOLAR BUILDINGS: A COMPILATION OF DATA AND RESULTS, Albuquerque, New Mexico, August 1977, SAND 77-1204.
- Saunders, N.B., ECONOMIC RESULTS OF CERTAIN PASSIVE STRUCTURES, paper presented, NESEA Better Thermal Utilization Conference, Hartford, CT, Sept. 8-11, 1977.
- Saunders, N.B., PERFORMANCE OF SOLAR STAIRCASE (TM) SOLAR HEATING SYSTEMS ERDA, 4th Report, P.O., Wa-76-4974, July '76, 20 Mass Ave., Wash. 20545.
- Saunders, N.B., THERMAL RESULTS OF CERTAIN PASSIVE HEATED STRUCTURES, paper presented at NESEA Better Thermal Utilization Conference, Hartford, Ct., Sept. 8-11, 1977.
- Saunders, Norman, ECONOMICS-ONE VIEW, p. 247 PSHCC.

- Saunders, Norman, WESTON RESIDENCE, p. 90. PSHCC.
- Saunders, P.E., Norman B., ECONOMIC RESULTS OF CERTAIN INNOVATIVE INTEGRATED SOLAR HEATING SYSTEMS AS OF MARCH 1978, 2nd NPSC, p. 806.
- Saunders, Norman B., THERMAL RESULTS OF CERTAIN INNOVATIVE INTEGRATED SOLAR HEATING SYSTEMS AS OF MARCH 1978, 2nd NPSC, p. 62.
- Savornin, J., STUDY OF SOLAR WATER HEATING IN ALGERIA, UN: Rome E 35-S72.
- Schenewerk, W.E., and Blum, H.A., SOLAR ENERGY STORAGE USING SEPARATION AND MIXING OF AMMONIA AND WATER AND ENERGY STORAGE BY SEPARATION AND MIXING USING AN AMMONIA AND WATER SYSTEM, ISES Conference, 1974.
- Schiff, Marc, HOUSE AT CROOKED CREEK, 2nd NPSC, Vol. 1, pp 38-42.
- Schlag, J.H., Ray, D.C., Sheppard, A.P., Wood, J.M., IMPROVED IN-EXPENSIVE SOLAR COLLECTORS FOR AGRICULTURAL REQUIREMENTS Georgia Inst. of Tech., Atlanta, ASISES, Cape Canaveral Fl., 1976, from Sharing the Sun: Solar Technology in the Seventies, Vol. 7, Boer, K.W., Ed.
- Schnebly, John, THE WINDOW QUILT INSULATING SHADE, 2nd NPSC, Vol. 2, pp 314-316.
- Schonholzer, E., HYGIENIC CLEAN WINTER SPACE HEATING WITH SOLAR AND HYDRO-ELECTRIC ENERGY ACCUMULATED DURING THE SUMMER AND STORED IN INSULATED RESERVOIRS, Solar Energy Vol 12 No. 3, May 1969 pp. 379-385.
- Schutrum, L.F., SOLAR HEAT-GAINS THROUGH THREE TYPES OF FLAT WINDOW GLASS, ASHRAE Transactions, Vol 68, 1962.
- Schutrum, L.F., and Humphreys, C.M., and Franks, C.V., FIELD STUDIES OF HEAT LOSSES FROM CONCRETE FLOOR PANELS, ASHVE Transactions, Vol 57, 1951, ASHVE Journal Vol 23, No 1, 1951.
- Schutrum, L.F., Ozisik, N., SOLAR HEAT-GAINS THROUGH DOMED SKYLIGHTS, ASHRAE Transactions, Vol. 67, 1961; ASHRAE Journal Vol 3, No. 7, 1961.

- Schutrum, L.F., Stewart, J.L., A SUBJECTIVE EVALUATION OF SOLAR RADIATION AND RERADIATION FROM WINDOWS ON THE THERMAL-COMFORT OF WOMEN, ASHRAE Transaction, Vol 74, Pt. 2, 1968.
- Science News, AQUIFERS FOR SOLAR POWER STORAGE, Vol. 109, January 1976.
- Scully, Daniel V., "CLIMATE BASED SOLAR HOUSE DESIGN: HOT AND HUMID" CHARLESTON, SC, Sharing the Sun: Solar Technology in the Seventies; A joint Conference 1976 of the American Section of the International Solar Energy Society and the Solar Energy Society of Canada, Inc., August 15-30, Winnipeg. Vol. 4; Solar Systems, Simulation, Design, pp 23-26. Available from Pergamon Press, Inc., Maxwell House, Fairview Park, Elmsford, NY 10523.
- Scully, Dan, KNOWING AND LOVING AND NEVER KNOWING: TWO HOUSES, 2nd NPSC, p. 47.
- Sebald, A.V., EFFECTS OF CONTROLS ON WATER WALL PERFORMANCE, 2nd NPSC, p. 555.
- Sedrick, Arthur V., PASSIVE SOLAR HEATED WAREHOUSE, 2nd NPSC, p. 52.
- Sedrick, Arthur V., SOLAR EXPERIMENTS WITH PASSIVE RETROFIT, 2nd NPSC, p. 81.
- Seemann, J., CLIMATE UNDER GLASS--HEAT BALANCE, World Meteorological Organization, Geneva, Switzerland. Avail. NTIS HC WMO, Geneva. (NASA 74N23051).
- Seigel, L.G., and W.L. Bryan, "NATURAL CONVECTION COOLING AND DEHUMIDIFYING" ASHVE Transactions, Vol. 64, 1958, pp 151-162. Heating, Piping & Air Conditioning, Vol. 29, No. 12, December 1957, pp 129-134.
- Selcuk, M.K., Honeywell Inc. Syst and Res Cent, Minneapolis, Minn., Ersay, O.; Aykurt, M., DEVELOPMENT, THEORETICAL ANALYSIS AND PERFORMANCE EVALUATION OF SHELF TYPE SOLAR DRIERS, Solar Energy, V16 N2, P. 81-88, 14 refs, Oct. 1974. (TAC: ST74 63002)
- Selcuk, M.K., and Yellott, J.I., MEASUREMENT OF DIRECT, DIFFUSE AND TOTAL RADIATION WITH SILICON PHOTO-VOLTAIC CELLS, Solar Energy, Vol. 6, 1962 pp. 155-63.

- Selkowitz, Stephen, ENERGY EFFICIENT WINDOWS PROGRAM ACTIVITIES, 2nd NPSC, p. 335.
- Selkowitz, Stephen, TRANSPARENT HEAT MIRRORS FOR PASSIVE SOLAR HEATING APPLICATIONS, 2nd NPSC, Vol. 2, pp 329-334.
- Seybold, R., FUSIBLE SALTS AND NITROGEN DIOXIDE ABSORPTION FOR UTILIZING SOLAR ENERGY, B.S. Thesis, University of Wisconsin, Madison, 1956.
- Shapiro, Andre M., PREDICTION PERFORMANCE OF A MINIMAL STORAGE PASSIVE SOLAR HOUSE: THE CROSLY HOME, 2nd NPSC, p. 86.
- Sharon, G.S., DESIGN PROCEDURE FOR A SOLAR HOUSE, Prog. Archit., p. 88-93, Mar 1952, EDB-77:060617. (TAC: ST77 33077)
- Shaviv, E., METHOD FOR THE DESIGN OF FIXED EXTERNAL SUN SHADES, Tech, Isr Inst of Technol, Haifa, Israel, Build Int Engl Ed V 8:121-150, 7 refs, N2, Mar-Apr 1975. (TAC: ST76 50025)
- Shelpuk, B., Joy, P., Jr., TECHNICAL AND ECONOMIC FEASIBILITY OF THERMAL STORAGE IN A SOLAR HEATING SYSTEM Louisiana State Univ., Baton Rouge ERDA Div. of Solar Energy, Radio Corp. of America, Camden, N.J., July 1976 Proceedings of the Second Southeastern Conference on Application of Solar Energy.
- Shelton, Jay, UNDERGROUND STORAGE OF HEAT IN SOLAR HEATING SYSTEMS, Williams College, Williamstown, Mass. Solar Energy 254 (1-7) 1974.
- Sheridan, N.R., THE SIMPLE DOMESTIC SOLAR WATER HEATER, University of Queensland, Dept. Mech. Eng., Solar Research Notes, No. 5. Australia.
- Sheridan, N.R., SOLAR WATER HEATERS, Solar Research Notes University of Queensland, Australia, 1969.
- Shippee, Paul, THE SUNEARTH HOME, 2nd NPSC, p. 91.
- Shore, Ronald, A SELF-INFLATING MOVABLE INSULATION SYSTEM, 2nd NPSC, Vol. 2, pp 305-309.
- Shore, Ronald, PITKIN COUNTY'S AIRPORT TERMINAL...OR...WHERE DID ALL THE NATURAL GAS GO?, pp 129-131.

- Short, T.H., Badger, P.C., Rolle, W.L., OARDC'S SOLAR-HEATED GREENHOUSE, Ohio Agric Res & Dev Cent, Wooster, OH, Agric Eng, V 57:30-32, N7, July 1976. (TAC: ST76 47012)
- Short, Ted H., A CONFERENCE ON SOLAR ENERGY FOR HEATING GREENHOUSES AND GREENHOUSE-RESIDENTIAL COMBINATIONS, The Ohio Agricultural Research and Development Center & The Energy Research and Development Administration; March 20-23, 1977.
- Shurcliff, Wm. A., SOLAR HEATED BUILDINGS: A BRIEF SURVEY, 19 Appleton St., Cambridge, MA 02138, 13th Edition, 1977, pp 306.
- Shurcliff, William A., NEAR 100% HEATED GREENHOUSE EMPLOYING DUAL FUNCTION TRICKLE WALL; SCHEME, S-144, Cambridge, Mass., 1977, 5 pp.
- Silverstein, S.D., EFFICIENT ENERGY UTILIZATION IN BUILDINGS: THE ARCHITECTURAL WINDOW, GE, Schenectady, NY, Intersoc Energy Convers Eng Conf, 10th, Red, Univ of Delaware, Newark, pp 685-694, 26 refs, Aug 18-22, 1975, Pap 759105, Publ by IEEE, New York, NY, Cat n 75CHO 983-7 TAB (TAC: ST76 50026).
- Silverstein, S.D., EFFECT OF INFRARED TRANSPARENCY ON THE HEAT TRANSFER THROUGH WINDOWS: A CLARIFICATION OF THE GREENHOUSE EFFECT, General Electric Co., Schenectady, NY, Science Vol. 193 No. 4249, July 16, 1976 pp. 229-231.
- Simon, Charles, PRINCIPLES AND EXAMPLES OF THE DESIGN OF PASSIVE SOLAR HOUSES IN THE COOL TEMPERATE ZONE, pres, at the Solar Energy Update '77, Solar Energy Society of Canada, 3rd Annual Gen. Mtg. and Conf., August 22-24, 1977.
- Simpkins, J.C., Mears, D.R., Roberts, W.J., REDUCING HEAT LOSSES IN POLYETHYLENE COVERED GREENHOUSES, Rutgers State Univ., New Brunswick, NJ, ASAE Pap, 68th Annual Meet, Univ. of California, Davis, Pap 75-4022, 15 pp, 14 refs, June 22-25, 1975, Publ by ASAE, ST. Joseph, MI, 1975. (TAC: ST76 47007)
- Simson, D.A., and T. Hoad, HOW TO BUILD A SOLAR WATER HEATER, Revised Edition, Brace Research Institute, Macdonald College, St. Anne de Bellevue, Quebec, Canada 80A 1CO, 1973, 10 pp.

- Sinden, Frank, CONSERVATION OF DOMESTIC SPACE HEAT AND ITS RELATION TO SOLAR HEATING, 2nd NPSC, pp 435.
- Skau, N.H., and Guernsey, E.W., and Betz, P.L., EARTH AS HEAT SOURCE AND SINK FOR HEAT PUMP, ASHVE Transactions, Vol. 64, 1958, ASHVE Journal Vol. 29, No. 12, 1957.
- Skurka, Norma, and Naar, Jan, DESIGN FOR A LIMITED PLANET: LIVING WITH NATURAL ENERGY, Ballantine Books, New York, 1976, or Westminster, MD 21157, 215 pp.
- Sliwowski, Joseph, SOLAR ONE-ACTIVE AND PASSIVE CONTRIBUTIONS TO SPACE HEATING, 2nd NPSC, pp 621.
- Sliwowski, Joseph H., APPLICATION OF PHASE CHANGE MATERIALS IN A PASSIVE SOLAR SYSTEM, 2nd NPSC, p. 475.
- Smay, Elaine, SOLAR LEGISLATION, Popular Science Solar Energy Handbook, Times-Mirror Magazine, 112 pp, 1978, \$1.75.
- Smetana, F.O., SOLAR ASSISTED HEAT PUMPS--A POSSIBLE WAVE OF THE FUTURE, North Carolina Science and Technology Research Center, Research Triangle Park NASA-CR-2771, NAS1-14208, Washington, N77-14584 Avail: NTIS HC A02/MF A01. (TAC: ST77 24008).
- Smith, J., Aldrich, R.A., White, J.W., Duda, J.L., GREENHOUSE AS A SOLAR COLLECTOR Pennsylvania State Univ, University Park, Pap ASAE, 10 pp N76-4052, 1 ref, for Annual Meet, Univ of Nebraska, Lincoln, June 27-30, 1976. (TAC: ST77 27004). Available from ASAE.
- Smith, W.A., Pennington, C.W., SHADING COEFFICIENTS FOR GLASS BLOCK PANELS, ASHRAE Journal, Vol. 6, No. 12, 1964.
- Smith, W.A., Pennington, C.W., McCarthy, R.S., Farber, Erich; DETERMINATION OF SOLAR HEAT GAIN THROUGH GLASS BLOCK (EXPERIMENTAL), ASHRAE Transactions, Vol 71, Pt 2;1965.
- Smith, W.T., EVAPORATIVE COOLING--A SYMPOSIUM, HEATING, PIPING & AIR CONDITIONING, ASHVE Journal, Vol. 27, No. 8, 1955, pp 141-147.
- Snider, D.M., and Viskanta, R., COMBINED CONDUCTION-RADIATION ENERGY TRANSFER IN STAGNANT WATER, Vol. 10, No. 5. Water Resources Research, Oct 1974, 939 pp.

- Snider, D.M., Viskanta, R., ANALYTICAL AND EXPERIMENTAL STUDY OF COMBINED CONDUCTION RADIATION ENERGY TRANSFER IN STAGNANT WATER, Purdue Univ., Lafayette, IN, School of Mech. Eng., Office of Water Research and Tech., Washington, DC, Nov. 1973.
- Sobel, A.T., GALVANIZED STEEL ROOF CONSTRUCTION FOR HEATING, Buelow, F.H.; 4DE0008 1962 6pp TP ASUSI.
- Sobotka, R., SOLAR WATER HEATERS, UN: Rome E 35-S26.
- Solar Energy Society, APPLICATION OF SOLAR ENERGY TO AGRICULTURE, HORTICULTURE, ANIMAL HUSBANDRY, AND FOREST PRODUCTS; Survey of Research, Solar Energy, Vol. 9, No. 2, pp 87-94, April/June, 1965. (TAC: ST74 10089).
- Spanides, A.G. and Hatzikakidis, A.D., SOLAR AND AEOLIAN ENERGY Plenum Press, New York 1964; Proceedings of Advanced Study, Institute for Solar and Aeolian Energy, Sounion, Greece, Greek Atomic Energy Commission and the Hellenic Scientific Society of Solar and Aeolian Energy, 1961.
- Spencer, D.L., VARIABLE SHADING FOR GREENHOUSES, Univ of Iowa, Iowa City; Daunicht, H.J.; Smith, T.F., ASME Pap N74-WA/Sol-12, 11 p., 1 ref, Nov 74. (TAC: ST75 47000)
- Spencer, G.S., THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, 2nd NPSC, p. 265.
- Speyer, E., OPTIMUM STORAGE OF HEAT WITH A SOLAR HOUSE, Central Res. Lab., American Machine and Foundry Co., Stamford, Conn., Solar Energy Vol. 3 no. 4, Oct. 1959 pp. 24-48.
- Sprague, Clyde H., McNall, Preston E., Jr., THE EFFECTS OF FLUCTUATING TEMPERATURE AND RELATIVE HUMIDITY ON THE THERMAL SENSATION OF SEDENTARY SUBJECTS, ASHRAE Transactions, Vol. 76, Pt. 1, 1970.
- Spreyer, E., SOLAR BUILDINGS IN TEMPERATE AND TROPICAL CLIMATES, American Machine and Foundry Co., Stamford, Ct. from Proceedings of the United Nations Conference on New Sources of Energy, Vol. 5, UN, N.Y., 1964.
- Stargardt, W.W., Buckley, B.S., ECONOMIC ANALYSIS OF THERMIC DIODE SOLAR PANELS, (Masoneilan Int. Inc., Norwood, Mass), Am. Soc. Mech. Eng., (Pap.), 76-WA, Sol.-7, Dec. 5, 1976. pp. 1-11.

- Starr, Gary, Melzer, Bruce, AN EVALUATION OF TWO BREADBOXES, 2nd NPSC, Vol. 2, pp 627-631.
- Starr, Gary, THE SOLDYNE HOUSE, 2nd NPSC, pp 462.
- Starr, Gary, WINDOW COVERINGS, 2nd NPSC, pp 317.
- State Commission of Public Records and Archives, SOLAR HEATING & COOLING TAX CREDIT REQUIREMENTS, Santa Fe, NM.
- State Energy Commission Alternatives Division Solar Office, INTERIM GUIDELINES AND CRITERIA FOR A STATE SOLAR ENERGY TAX CREDIT, Jan. 5, 1978, Sacramento, CA.
- State Solar Legislation, National Solar Heating and Cooling Information Center, P O Box 1607, Rockville, MD 20850, 1977, pp 2.
- Stenhouse, Douglas S. and Cecile H. Wolfe, DAYLIGHTING DESIGN FOR THE SACRAMENTO STATE OFFICE BUILDING COMPETITION, 2nd NPSC, Vol. 2, pp 371.
- Stenhouse, Douglas, S., and Cecile H. Wolfe, DAYLIGHTING DESIGN FOR THE ENERGY EFFICIENT OFFICE BUILDING COMPETITION, Vol. 2, pp 128-133.
- Stephenson, D.G., EQUATIONS FOR SOLAR HEAT GAIN THROUGH WINDOWS, Solar Energy, Vol. 9, No. 2, pp 81-86, April-June, 1965. (TAC: ST74 50225) Available from MA SEA.
- Stevens, G.A., "DESERT CLOUD" APPLIED TO BIO-CLIMATIC PLAN HOUSING, 2nd NPSC, Vol. 2, pp 519.
- Stickford, G.H., AN ANALYTICAL EVALUATION OF HEAT PIPE AUGMENTED PASSIVE SOLAR HEATING SYSTEMS, 2nd NPSC, pp 106.
- Stickney, B., McGrew, J.L., van der Meer, W., Bickle, L., and Rogers, B., New Mexico Solar Energy Association: Codes & Legislation: ARTICLES ON CODES, ENERGY CONSERVATION, AND U-VALUES, Vol. 2, No. 11, November, 1977.
- Stickney, Bristol L., A LOW COST METHOD OF EVALUATION AND PERFORMANCE STANDARDS FOR PASSIVE SOLAR BUILDING, 2nd NPSC, pp 440.
- Streed, Elmer, THERMAL DATA REQUIREMENTS AND PERFORMANCE EVALUATION PROCEDURES FOR PASSIVE BUILDINGS 2nd NPSC, pp 411.
- Stromberg, R.P., and S.O. Woodall, PASSIVE SOLAR BUILDINGS: A COMPILATION OF DATA AND RESULTS, Albuquerque, NM, Sandia Labs, 1977. Available from NTIS, US Dept. of Commerce, Springfield, VA 22161, 71 pp.

- Styris, D.L., Zaworski, R., Harling, O.K., THE NONCONVECTING SOLAR POND: AN OVERVIEW OF TECHNOLOGICAL STATUS AND POSSIBLE POND APPLICATION, Batelle-Pacific Northwest Labs, Richland, Wash., 76 p., Jan 75. BNWL-1891. (TAC: ST75 46002)
- Sullivan, Paul, BARRIERS, ADVANTAGES, AND INCENTIVES FOR PASSIVE SOLAR DESIGN, 2nd NPSC, p. 736.
- Sullivan, Paul, MODELING PASSIVE BUILDINGS USING TRNSYS, 2nd NPSC, p. 398.
- Sullivan, Paul W., THE IMPACT OF ACTIVE AND PASSIVE BUILDINGS ON UTILITY PEAK LOADS, 2nd NPSC, p. 811.
- Sun at Work, ECONOMIC FEASIBILITY REACHED IN SOLAR HOME, First Quarter, 1966, pp 6-7.
- Sun Position, Heat Gain and Shading Data Calculator, Koolshade Corporation, 3645 San Fernando Rd., Glendale, CA 91204.
- Sun, T.Y., SHADOW AREA EQUATIONS FOR WINDOW OVERHANGS AND SIDE FINS AND THEIR APPLICATION IN COMPUTER CALCULATION, ASHRAE Transactions, Vol 74, pp 1.1-1.9, Pt. 1, Paper 2049, 1968, (TAC: ST74 50228).
- Surrett, Herb, CHEAP AIR COOLING FOR HOT CLIMATES, 4A0100, 1947, ASUSI.
- Sutton, G.E., ROOF SPRAY FOR REDUCTION IN TRANSMITTED SOLAR RADIATION, ASHVE Transactions, Vol. 57, 1951, ASHVE Journal, Vol. 22, No. 9, 1950.
- Svennberg, S.A., ENERGY SAVING BY ACCUMULATION, Vaermegrund AB, Stockholm, 1976, NTIS.
- Swet, C.J., NEW DIRECTIONS IN HEAT STORAGE FOR BUILDINGS, ERDA; Am. Section of the Intl. Solar Energy Society, Cape Canaveral, FL., 1976 from Sharing the Sun: Solar Technology in the Seventies Vol. 8, Boer, K.W., Ed.
- Tabor, H., SELECTIVE RADIATION IN WAVELENGTH DISCRIMINATION, Scientific Basis, 2A pp 24, also in Bull. Res. Council Israel Vol. 5A, Nos. 2 and 3, April 1956.

- Taff, D.C., Converse, A.E., Gillette, D., Heldt, R., ACTIVE VERSUS PASSIVE SYSTEMS-A DESIGN RATIONALE FOR THE STUDY OF EFFICIENCY CAPACITY, ECONOMICS AND THERMAL NETWORK ANALYSIS, 2nd NPSC, Vol. 3, pp 828-835.
- Taft, D.C., PASSIVE VERSUS ACTIVE COLLECTOR SYSTEMS: A COMPARATIVE STUDY OF EFFICIENCY, CAPACITY, ECONOMIC AND THERMAL NETWORK ANALYSIS, 2nd NPSC, pp 790.
- Takakura, T., TEMPERATURE GRADIENTS IN GREENHOUSE, J Appl Meteorol. Vol. 6 No. 5 Oct. 1967 pp. 956-957.
- Tamblyn, Robert T. THE ECONOMICS OF INSULATING GLASS, ASHRAE Journal, Vol. 15, No. 6, 1973.
- Tamura, G.T., Wilson, A.G., NATURAL VENTING TO CONTROL SMOKE MOVEMENT IN BUILDINGS VIA VERTICAL SHAFTS, ASHRAE Transactions, Vol. 76, Pt. 2, 1970.
- Tanishita, I., RECENT DEVELOPMENT OF SOLAR WATER HEATERS IN JAPAN, UN: Rome E 35-S68.
- Taylor, W., SUN-EXPOSED GLASS WALLS PROVIDE TEST FOR SOLAR HEATING, Glass Ind. Vol. 24, Sept. 1943.
- Telkes, M., SOLAR-HEAT STORAGE, ASME, New York, 1964.
- Telkes, M., SOLAR HOUSE HEATING, A PROBLEM OF HEAT STORAGE, Heating and Ventilating, Vol. 44, 1947 p. 68.
- Telkes, M., STORAGE OF SOLAR HEATING/COOLING, Univ. of Delaware, Newark. ASRAE Trans V80 Part 2, 1974, Pap MO-74-1, p. 382-392, 25 refs, 74. (TAC: ST75 42206).
- Telkes, M., THERMAL ENERGY STORAGE, Institute of Electrical and Electronics Engineers, Inc., New York, NY, p. 111-115, 14 refs, 1975, in Energy 10; Annual Intersociety Energy Conversion and Engineering Conference, 10th, Newark, DE, Aug 18-22, 1975, Record, A75-45920 23-44, A75-45932. (TAC: ST76 42016)
- Telkes, M., and Raymond, E., STORING SOLAR HEAT IN CHEMICALS: A REPORT ON THE DOVER HOUSE, Heating and Ventilating, Nov. 1949, pp. 80-85.
- Telkes, Maria, SOLAR ENERGY STORAGE, ASHRAE Journal, Vol 16, No 9;1974.

- Telkes, Maria, TROMBE WALL WITH PHASE CHANGE STORAGE MATERIAL, 2nd NPSC, Vol. 2, pp 283-287.
- Telser, S.E., MD, and Inouye, Tohru, and Hick, F.K., MD, EFFECT OF RELATIVE HUMIDITY ON HEAT LOSS OF MEN EXPOSED TO ENVIRONMENTS OF 80, 76, AND 72F, ASHVE Transactions Vol 59, 1953 ASHVE Journal Vol 25, No. 8, 1953.
- Terjung, W.H., Kickert, R.N., Potter, G.L., and Swarts, S.W., TERRESTRIAL, ATMOSPHERIC AND SOLAR RADIATION FLUXES ON A HIGH DESERT MOUNTAIN IN MID-JULY: WHITE MOUNTAIN PEAK, CALIFORNIA, Solar Energy, V 12:363-375, N 3, 1969. (TAC: ST74 24039)
- Terry, Karen, THE KAREN TERRY HOUSE, p. 132, PSHCC.
- Thekaekara, M.P., SOLAR RADIATION MEASUREMENT--TECHNIQUES AND INSTRUMENTATION, NASA, Goddard, Solar Energy, V 18:309-325, N4, 27 refs, 1976, International Solar Energy Society, International Solar Energy Congress and Exposition, University of California, Los Angeles, CA, July 28-Aug 1, 1975, A76-43181. (TAC: ST7624031)
- Thomas, I.E., Silles, M., HOW TO BUILD A SOLAR HERB DRYER, Community Environmental Council, El Mirasol Educational Urban Farm, 15 W. Anapamu St., Santa Barbara, CA 93101.
- Thompson, Grant, SOLAR ENERGY AND THE LOW BARRIERS TO A SUNNIER TOMORROW, 2nd NPSC, p. 850.
- Thunborg, S., HEAT TRANSMISSION BY HOT WATER THROUGH LONG PIPELINES, SLA-73-0207, July, 1973, Sandia Labs, Santa Fe, NM, Exploratory Projects, Div 1.
- Tichy, John A., ENGINEERING EVALUATION OF CONTROLS FOR PASSIVE SOLAR HEATING AND-COOLING SYSTEMS, 2nd NPSC, p. 501.
- Total Environmental Action, SOLAR ENERGY HOME DESIGN IN FOUR CLIMATES, Church Hill, Harrisville, N.H., 03450, 1975, 198 pp., \$15.00.
- Touchai, M., CONTRIBUTION TO THE SOLAR ARCHITECTURE ON THE MOON: MIXED WILLS, SIMULTANEOUSLY TRAPPING AND DISSIPATING ENERGY, Energie Solaire, Vol. 20, July 1971.
- Tozer, Eliot, OWNER-BUILT HOMES-LOW-COST, ENERGY EFFICIENT, Popular Science Solar Energy Handbook, Times-Mirror Magazine, 112 pp, 1978.

- Treat, C. H., SIMULATION OF THE THERMAL BEHAVIOR OF A ROOF-POND TYPE RESIDENCE, 2nd NPSC, p. 560.
- Troia, Eugene, HYBRID SOLAR GREENHOUSE AT CATE FARM, 2nd NPSC, p. 185.
- Trombe, F., CAPTURING NATURAL ENERGY SOURCES--SOLAR AND TERRESTRIAL RADIATION, Centre National de la Recherche Scientifique, Journal des Recherches, p: 527-551, 1964, 7 Refs, (TAC: ST74 10096)
- Trombe, F., and C. Henry La Blanchetais, PRINCIPLES OF AIR CONDITIONING IN COUNTRIES WITH A CLEAR SKY, United Nations Conference on New Sources of Energy; Solar Energy, Wind Power and Geothermal Energy, Rome, 21-31, August, 1961. Proceedings, Vol. 6; Solar Energy, III, pp 123-135, New York. United Nations, 1964. 1974 reprint available from United Nations Publications, Sales Section, Room A-3315, New York, NY 10017 (#E/F.63.1.40).
- Trombe, F., STUDY ON THE HEATING OF HOUSES BY THE UTILIZATION OF SOLAR ENERGY, Chauff, Vent., Condit., Vol. 43, 1967, pp 47.
- Trombe, F., et. al., SOME PERFORMANCE CHARACTERISTICS OF THE CNRS SOLAR HOUSE COLLECTORS, Los Alamos Scientific Lab., Los Alamos, NM; n.d.
- Trombe, F., et. al., SOME PERFORMANCE CHARACTERISTICS OF THE CNRS SOLAR HOUSES, CNRS, Odelio, France, Robert, J.F., Cabanta, M., Sesolis, B., International Solar Energy Society, Rockville, MD., 1975, 1975 International Solar Energy Congress and Exposition.
- Tutu, N., ENERGY TRANSPORT CONTROL IN WINDOW SYSTEMS, 2nd NPSC, p. 326.
- Ueland, Mark, Solar ATRIUM: A HYBRID SOLAR HEATING AND COOLING SYSTEM, 2nd NPSC, p. 256.
- Umarov, G.Y.A., Baibutaev, K.B., Yakubov, YU,N., EXPERIMENTAL DETERMINATION OF THE AMOUNT OF STORED ENERGY AS A FUNCTION OF THE TYPE AND DISPOSITION OF THE STORING MEDIUM IN SOLAR HOT-HOUSES, Bukhara Education Institute, Appl. Solar Energy USSR-Engl, Transl. Vol. 7 No. 6, 1971 pp. 90-93.
- Umarov, G.Y.A., Baybutayev, Yakubov, Ju.H., INVESTIGATION OF HOTOUSES AS SOLAR ENERGY COLLECTORS, Geliotechnology (Heliotechnology), V 7:26, N 6, 71. (TAC: ST74 47020)

United Nations Department of Economic and Social Affairs, NEW SOURCES OF ENERGY AND ECONOMIC DEVELOPMENT, United Nations, New York, 1957.

United Nations Department of Economic and Social Affairs, SOLAR ENERGY AVAILABILITY AND INSTRUMENTS FOR MEASUREMENTS: RADIATION DATA, NETWORKS AND INSTRUMENTATION, UN: Rome.

Minnesota University, EARTH SHELTERED HOUSING DESIGN, Minneapolis, The Underground Space Center, 1978, 310 pp. Available from American Underground Space Association, Dept. of Civil and Mineral Engineering, Univ. of Minnesota, Minneapolis, MN, 55455.

University of New Hampshire, SKYLIGHT ENERGY PERFORMANCE: AN EVALUATION OF THE EFFECT OF SKYLIGHTS ON BUILDING ENERGY REQUIREMENTS, Center for Industrial and Institutional Development, Durham; NH 03824, 1975, 13 pp.

University of Oregon, INSOLATION ON SOUTH-FACING SURFACES: PACIFIC NORTHWEST LOCATIONS, The Center for Environmental Research, School of Architecture and Allied Arts, Univ of Oregon, Eugene, OR 97403; 60 pp., 1975; \$2.50.

University of Virginia, NSF & ERDA WORKSHOP ON SOLAR ENERGY STORAGE SUBSYSTEMS FOR THE HEATING AND COOLING OF BUILDINGS, April 16-18, 1975; Charlottesville, Report of Working Group D.

U.S. Department of Commerce, Environmental Services Administration, CLIMATIC ATLAS OF THE UNITED STATES, National Climatic Center, Asheville, NC 28801, Attn: Publications.

Vale, R.J.D., RESULTS OF SOLAR COLLECTOR STUDY, Working Paper 12, Technical Research Division, University of Cambridge Department of Architecture, England, 1973.

Van Dresser, P., ENERGY-CONSERVING FOLK ARCHITECTURE IN RURAL NEW MEXICO, Arizona State Univ, Tempe Col of Architecture; from Proceedings of the ASC/AIA Forum 1975 Solar Architecture, Franta, G., Ed., 1975.

- Van Dresser, P., THE GROWTH OF FOLK SOLAR ARCHITECTURE IN NEW MEXICO, 2nd NPSC, pp 781.
- Van Dresser, Peter, THE SUNDWELLINGS, p. 270. NMSEA.
- Van Dresser, Peter, TWO SMALL SOLAR BUILDINGS, p. 109, 3rd Annual Life-Technics conference Avail. NMSEA, Santa Fe, NM.
- Van Der Meer, W.J., AVOID TUNNEL VISION IN IMPLEMENTATION OF ENERGY CONSERVATION BUILDING STANDARDS, School of Architecture and Planning-Univ. of N.M., Albuquerque, NM; excerpt from Research and Innovation in the Building Regulatory Process, NBS Special Publication 473.
- Van Der Meer, Wybe J., EFFECTIVE "U" VALUES, N.M., Energy Institute, Albuquerque; July 1977.
- Van Der Meer, Wybe, J., Bickle, Larry W., EFFECTIVE "U" FACTORS -A NEW METHOD FOR PREDICTING AVERAGE ENERGY CONSUMPTION FOR HEATING BUILDINGS, The New Mexico Energy Institute, Univ. of New Mexico, June 15, 1978, 54pp. Available from NTIS.
- Vanuxem, R., INSULATION AND OVERGLAZING, Rev Alum, p. 450-452, Oct. 1975, In French. (TAC: ST76 50064)
- Varey, G.B., THE DEVELOPMENT AND USE OF THE COMPUTER PROGRAM UWLIGHT FOR THE SIMULATION OF NATURAL AND ARTIFICIAL ILLUMINATION IN BUILDINGS, 2nd NPSC, p. 365.
- Varey, G.B., THE EVALUATION OF PASSIVELY-CONTROLLED ALTERNATE BUILDING DESIGNS BY THE THERMAL SIMULATION COMPUTER PROGRAM UWENSOL, 2nd NPSC, p. 357.
- Vatansever, A., GREENHOUSES ORIENTED TO THE SUN, Heliotech and Dev., Proc of the Int Conf, Dhahran, Saudi Arabia, V2:396-400, 1976. (TAC: ST77 27012).
- Viessman, Warren, ENVIRONMENTAL PROTECTION IN SUBTERRANEAN SHELTERS, ASHVE Journal Vol 28, No 6, 1956.
- Vild, D.J., Parmelee, G.V., HEAT GAIN THROUGH GLASS SKYLIGHT FENESTRATIONS: HEATING, PIPING, AND AIR CONDITIONING, Vol. 28, pp 201-208, No.1, January 1956, (TAC: ST74 50229)
- Visher, S.S., CLIMATIC ATLAS OF THE UNITED STATES, Harvard University Press 1954.

- Volunteers for International Technical Assistance (VITA), GLASS PLATE SOLAR WATER HEATER, Village Technology Plan 5513.2., Mt. Ranier, Maryland, n.d.
- Wachtell, George Peter, SELF-PUMPING BY MEANS OF POWER CYCLES, 2nd NPSC, p. 514.
- Wade, H.A., SOLAR GREENHOUSE DESIGN FOR THE COLD DRY REGIONS OF THE SOUTHWESTERN USA, 1976 from Passive Solar Heating and Cooling, Keller, M.H., Ed.
- Walker, J.N., PREDICTING TEMPERATURES IN VENTILATED GREENHOUSES, ASAE Trans. Vol. 8, No. 3; 1965; pp. 445-448.
- Wallis, Alva L., Jr. COMPARATIVE CLIMATIC DATA THROUGH 1977, National Climatic Center, Federal Building, Asheville, NC 28801, 1978.
- Ward, G.T., POSSIBILITIES FOR THE UTILIZATION OF SOLAR ENERGY IN UNDER-DEVELOPED RURAL AREAS, Bulletin 16, Agricultural Engineering Branch, Food and Agricultural Organization of the United Nations, Rome 1961.
- Wasco Products, Inc., A Summary of Current Conclusions, 1976, SKYLIGHTING AND ENERGY CONSERVATION, Sanford, Maine.
- Waters, J., Richardson, D., SOLAR HEAT GAIN THROUGH UNSHADED GLASS, From Sunlight in Buildings, Proceedings of the CIE Intersessional Conference, Newcastle Upon Tyne, 1965.
- Watson, Donald, BEYOND PASSIVE DESIGN: TOWARD AN INTEGRATIVE CONSERVATION TECHNOLOGY, 2nd NPSC, Vol. 1, pp 30-34.
- Watson, Donald, DESIGNING AND BUILDING A SOLAR HOUSE: YOUR PLACE IN THE SUN, Gardenway Publishing, Charlotte, VT 05445, 1977, 281 pp.
- Watson, T., THE GREENHOUSE AS AN EFFICIENT FLAT PLATE COLLECTOR Foundation for Rural Technology, PO Box 8, Embudo, NM (TAC: ST75 47012)
- Weber, P., ALLISOL 2-INSULATING SECTIONS FOR WINDOWS, DOORS, FACINGS, Alum Menziken, Switz. Schweiz Alum Rundschn, N4, p. 78-79, 3 refs, Ap 75. (TAC: ST75 50223)

- Weber, W.H., Lambe, J., LUMINESCENT GREENHOUSE COLLECTOR FOR SOLAR RADIATION, Ford Motor Co., Dearborn, MI, Applied Optics, V 15:2299,2300, Oct 1976, A76-46178 (TAC: ST77 27005),
- Wellesley-Miller, Sean, WEATHER RESPONSIVE BUILDINGS SKINS: CONCEPTS AND CONFIGURATIONS, Vol. 2, pp 493-500.
- Wells, Malcolm, UNDERGROUND ARCHITECTURE, 2nd NPSC, p. 28.
- Werden, Jane, E., Dr. and Fahnestock, M.K., ENVIRONMENT, COMFORT, HEALTH AND PEOPLE, ASRE Journal Vol 64, No 2, '56.
- Wesely, M.L., Lipschutz, R.C., A METHOD FOR ESTIMATING HOURLY AVERAGES OF DIFFUSE AND DIRECT SOLAR RADIATION UNDER A LAYER OF SCATTERED CLOUDS--FOR SOLAR COLLECTOR DESIGN, Argonne National Laboratory, Argonne, IL, Solar Energy, V 18: 467-473, N5, 1976, ERDA-Supported, A77-12412. (TAC: ST77 37011)
- Wessling, Dr. Francis C., SOLAR RETROFIT TEST MODULES, 2nd NPSC, p. 445.
- Wessling, Francis C., et al, TEMPERATURE RESPONSE OF A SUNLIT FLOOR AND ITS SURROUNDING SOIL, pp 73-78.
- Wessling, Dr. Francis C., THERMAL CHARACTERISTICS OF ADOBE; Univ of N.M., Albuquerque; Third Annual Life-Technics Conference, p. 63. Avail.-NMSEA, Santa Fe, N.M.
- Wessling, F.C., Jr., THERMAL ENERGY STORAGE IN ADOBE AND IN STONE STRUCTURES, Univ of NM, Albuquerque, NM; ASME Pap N 74-WA/HT-15 for Meeting, Nov 17-22 1974, 7 p.
- Wheeling, Terry, PERFORMANCE OF PASSIVE TEST UNITS IN BUTTE, MONTANA, 2nd NPSC, p. 591.
- Whillier, A., PLASTIC COVERS FOR SOLAR COLLECTORS, Solar Energy, Vol. 7, 1963 pp. 148-151.
- White, Robert F., LANDSCAPE DEVELOPMENT AND NATURAL VENTILATION: EFFECT OF MOVING AIR ON BUILDINGS AND ADJACENT AREAS, Landscape Architect, Vol. 45, January 1955, pp 72-81. Reprint October 1976, available from Dept. of Landscape Architecture, Texas A & M University, College Station, TX 77843.

- White, William, THE ENERGY ROOF: A NEW APPROACH TO SOLAR HEATING AND COOLING, 2nd NPSC, p. 218.
- White & Arnold, Inc., WHITE MOUNTAIN SCHOOL LIVING CENTER, LITTLETON, NEW HAMPSHIRE, 2nd NPSC, p. 173.
- Whitehouse, Harry T., A SOUTH-WALL HEATING SYSTEM FOR A COMMERCIAL BUILDING EMPLOYING TILT-UP CONCRETE CONSTRUCTION, 2nd NPSC, p. 94.
- Whitmer, L.R., MINIMIZING SPACE ENERGY REQUIREMENTS SUBJECT TO THERMAL COMFORT CONDITIONS, Kansas State Univ, Manhattan, KS, CODEN-ASHRAA SOURCE-ASHRAE J, V18:48-51, N6, 9 refs, Je 1976. (TAC: ST76 50111)
- Williams, Paul F., A PASSIVE SOLAR HEATED HOUSE AND GREENHOUSE ON CAPE COD, DESCRIPTION AND PERFORMANCE, 2nd NPSC, p. 203.
- Wilson, A.G., Nowak, E.S., CONDENSATION BETWEEN THE PANES OF DOUBLE WINDOWS, ASHRAE Transactions, Vol 65, 1959.
- Wilson, Quentin C., THERMAL PERFORMANCE OF THE GHOST RANCH SUNDWELLINGS, 2nd NPSC, p. 457.
- Wilson, Thomas C., TWO RECENTLY COMPLETED TROMBE WALL RETROFITS, 2nd NPSC, Vol. 1, pp 76-80. PSHCCW, Alburq, NM.
- Windes, Vina, A PLACE IN THE SUN: NEW MEXICO RESIDENTS HAVE BEEN EXPERIMENTING WITH SOLAR HOMES FOR YEARS, New Mexico Magazine, Vol. 54, No. 3, March 1976.
- Windes, Vina, THE HOUSES OF NEW MEXICO: SOLAR ENERGY HEATS TWO HOUSES, New Mexico Magazine, Vol. 53, No. 2, Feb., 1975.
- Wirtshafter, Robert, MODELING PASSIVE BUILDINGS USING TRNSYS, 2nd NPSC, p. 398.
- Wirtshafter, Robert, THE IMPACT OF ACTIVE AND PASSIVE BUILDINGS ON UTILITY PEAK LOADS, 2nd NPSC, p. 811.
- Wistinghausen, Nik, GROUNDHOUSE: THE LOW COST SOLAR HOME, 853 Champlain Road, Sarnia, Ontario; Aug '77.
- Wolf, Cecile H., DAYLIGHTING DESIGN FOR THE SACRAMENTO STATE OFFICE BUILDING COMPETITION, 2nd NPSC, p. 371.
- Wolfert, C.K., A PRIMER ON ATTIC VENTILATION, RSI, October 1975.
- Woodyard, D., ARE WINDOWS NECESSARY, Engineering, Vol 211 No. 8, Nov. 1971 pp. 876-879.

- Woolrich, W.R., Rice, W.M., SOLAR RADIATION ABSORPTION BY WETTED ROOFS, REPR:BLDG SYS D:1-48 4CF0005 1948 P84-6 TP. ASUSI.
- Wright, David, ARCHITECT DAVID WRIGHT ADVOCATES NATURAL SOLAR SPACE CONDITIONING, Sol. Eng. Vol. 1 No. 6; Aug., 1976 pp. 14-15.
- Wright, David, DESIGNING AND BUILDING A SOLAR HOUSE, p. 143, PSHCC.
- Wright, David, NATURAL SOLAR/MICROCLIMATE/SOLID-STATE DESIGN, 2nd NPSC, p. 13.
- Yanda, B., SOLAR EFFICIENT GREENHOUSE: MEANS GROWING MORE FOR LESS, Solar Sustenance Project, Inc., Santa Fe, NM, Sol. Eng.; Vol. 1 No. 8, Oct. 1976 pp. 12-14.
- Yanda, B., THE SOLAR GREENHOUSE, 3rd Annual Life-Technics Conference, avail., NMSEA, Santa Fe, N.M.
- Yanda, Bill, THE CONSTRUCTION OF A WORKSHOP: FIELD EXPERIENCE IN THE EDUCATION OF PASSIVE SOLAR SYSTEMS, 2nd NPSC, p. 720.
- Yanda, Susan, THE CONSTRUCTION OF A WORKSHOP: FIELD EXPERIENCE IN THE EDUCATION OF PASSIVE SOLAR SYSTEMS, 2nd NPSC, p. 720.
- Yanda, W., AN ATTACHED SOLAR GREENHOUSE, The Lightning Tree, Box 1857, Santa Fe, NM, 87501; \$2.00.
- Yanda, William, CONSIDERATIONS FOR RETROFITTING AN ATTACHED SOLAR GREENHOUSE, p. 160. PSHCC.
- Yanda, Wm. F., SOLAR SUSTENANCE PROJECT PHASE II FINAL REPORT, Solar Sustenance Project, Inc., The Energy Resource Board, State of New Mexico, Santa Fe, NM.
- Yang, W-J, Lee, C-P., MODELING OF A HEAT-PIPE OPERATED THERMAL STORAGE DEVICE, Univ of Michigan, Ann Arbor, ASHRAE Trans, V 82:634-643, pt 1, 3 refs, 1976, Proc of the ASHRAE Semiannual Meet, Dallas, TX, Feb 1-5, 1976. (TAC: ST77 23028)
- Yeh, L.T., ON BIOT'S VARIATIONAL PRINCIPLE FOR SOME TRANSIENT HEAT TRANSFER PROCESSES INVOLVING THERMAL RADIATION, PH.D. Thesis, Akron Univ, Akron, OH, 222 p., Order No. 76-24403, N77-13353 Avail: Univ Microfilms. (TAC: ST77 33021)

- Yeh, Y.J., ENERGY TRANSPORT CONTROL IN WINDOW SYSTEMS, 2nd NPSC, p. 326.
- Yellott, J.I., NOCTURNAL HEAT LOSS FROM HORIZONTAL SURFACES IN REGIONS, UN CONF: New Sources of Energy IB0129 1961 19P TP ASUSI.
- Yellott, J.I., NEW DEVELOPMENTS IN ARCHITECTURAL GLASS, Arizona State Univ., 1973 from International Congress. The Sun in the Service of Mankind, 3:313:200.
- Yellott, J.I., PASSIVE SOLAR HEATING AND COOLING SYSTEMS, CLASSIFICATION, ASHRAE Transactions, 1977, Vol. 83, Part 2.
- Yellott, J.I., Ewing, W.B., ENERGY CONSERVATION. EXTERIOR SHADING OF FENESTRATION TECHNIQUES, Arizona State Univ., Tempe, AZ, ASHRAE Journal, V 18:23-30, N7, J1 1976. (TAC: ST76 50112)
- Yellott, John, THE ENERGY ROOF: A NEW APPROACH TO SOLAR HEATING AND COOLING, 2nd NPSC, p. 218.
- Yellott, John, SOLAR RADIATION AND THE ATMOSPHERE, pp 7-16 PSHCC.
- Yellott, John, SOLAR ROOF PONDS, "EARLY TESTS OF THE 'SKYTHERM' SYSTEM," p. 54. PSHCC.
- Yellott, John et al., SOLAR-ORIENTED ARCHITECTURE, Arizona State University; Available from; Manager, AIA Publications, Marketing, 1735 New York Ave., N.W., Washington, D.C., 20006, \$12.50, 142 pp., 1975. (soft cover).
- Yellott, John I., CALCULATION OF SOLAR HEAT GAIN THROUGH SINGLE GLASS, Solar Energy, V. 7, No. 4, 1963.
- Yellott, John I., DRAPERY FABRICS AND THEIR EFFECTIVENESS IN SOLAR HEAT CONTROL, Paper given at ASHRAE semi-annual meeting, Chicago, January 1965. Available from Interlibrary Loan, Arizona State University, Tempe, AZ 85281, (ASUSI #4D139).
- Yellott, John I., EFFECT OF LOUVERED SUN SCREENS UPON FENESTRATION HEAT LOSS, ASHRAE Transactions, Vol. 78, Pt. 1, 1972.
- Yellott, John I., PASSIVE SYSTEMS FOR SOLAR HEATING AND COOLING HISTORICAL PERSPECTIVE, 2nd NPSC, p. 1.
- Yellott, John I., SHADING COEFFICIENTS AND SUN CONTROL CAPABILITY OF SINGLE GLAZING, ASHRAE Transactions, Vol 72, Pt 1, 1966.

- Yellott, John I., SOLAR HEAT GAIN THROUGH COATED GLASS, 4DH0044 1964  
11 pp, TP ASUSI.
- Yellott, John I., SOLAR OPTICAL PROPERTIES, HEAT-TRANSFER COEFFICIENTS  
AND SHADING COEFFICIENTS FOR ARCHITECTURAL GLASS,  
ASHRAE Journal, Vol. 13, No. 3, 1971.
- Yellott, John I., A STUDY OF NATURAL COOLING PROCESSES IN A HOT, ARID  
REGION, 2nd NPSC, p. 653.
- Yellott, John I., UTILIZATION OF SUN AND SKY RADIATION FOR HEATING AND  
COOLING OF BUILDINGS, ASHRAE Journal, Vol. 15, No. 12  
pp 31-42, 1973.
- Yellott, John I., and Hay, Harold, THERMAL ANALYSIS OF A BUILDING WITH  
NATURAL AIR-CONDITIONING, ASHRAE Transactions, Vol. 75,  
Pt. 1, 1969.
- Yissar, Louis F., DESIGN CONSIDERATIONS OF FACTORY-MADE SOLAR WATER  
HEATERS, Conference on Solar Energy: The Scientific  
Basis, University of Arizona, Tucson, AZ, 1955.
- Yorkdale, A.H., Brick Inst of Am, and Patterson, D.C., THERMAL PER-  
FORMANCE OF BRICK MASONRY WALLS IN ENERGY CONSERVA-  
TION, V 28:39-42, N12, Dec 1975 (TAC: ST76 51023)
- Yuan, S.W., Bloom, A.M., SOLAR ENERGY STORAGE AND UTILIZATION, George  
Washington Univ., Washington, D.C., Advan. In Eng.  
Sci., V 3:123501246, in NASA, Langley Res. Center,  
N77-10305 01-31, N77-10341, Avail: NTIS (TAC: ST77  
23022)
- Yuan, S.W., Galowin, L.S., CENTRAL SOLAR ENERGY UTILIZATION SYSTEM,  
Geo. Wash. Univ., Washington, DC, Semin on Future  
Energy Prod-Heat and Mass Transfer Prob., Dubrovnik,
- Yu, Ying-Nien, A NEW NOCTURNAL AIR COOLING SYSTEM, 2nd NPSC, p. 670.
- Zambrano, Enrique, TRANSIENT ANALYSIS OF THERMIC DIODE SOLAR PANEL,  
2nd NPSC, p. 469.
- Zangrando, F., Bryant, H.C., SOLAR PONDS FOR RESIDENTIAL HEATING,  
. Final Report, Dept. of Physics and Astronomy, Univer-  
sity of New Mexico, Aug 1976, Grant No. ERB-161.  
(TAC: ST77 26002)
- Zomeworks, BEADWALL SYSTEM WINDOW AND GREENHOUSE PLANS, P.O. Box 712,  
Albuquerque, New Mexico, 87103, \$15.00 (TAC: ST74  
47022)

- Zomeworks, DRUM WALL PLANS, P.O. Box 712, Albuquerque, New Mexico.  
87103, \$5.00. (TAC: ST74 55246)
- Zomeworks, SOLAR BOOKLET, Albuquerque, N.M., no date.
- Zomeworks, SOLAR SLIDE SET, Albuquerque, NM, no date, \$12.00.
- Zomeworks, SOLAR WATER HEATER PLANS, P.O. Box 712, Albuquerque, New  
Mexico, 87103, \$5.00. (TAC: ST74 40285)
- Zornig, H.F., Godbey, L.C., Bond, T.E., LOW-COST SOLAR ATTIC HEATING  
SYSTEM FOR HOUSE INCLUDING DESIGN AND PERFORMANCE  
DATA, USDA, Agric Res Serv. Clemson, SC, Pap 76-4054,  
28 pp, 13 refs, 1976, Pap ASAE for Annu Meet, Univ of  
Nebraska, Lincoln, June 27-30, 1976. (TAC: ST77  
30047)
- Zwart, Gerrit, A HYBRID SOLAR SYSTEM IN LOS ALAMOS, NEW MEXICO, 2nd  
NPSC, p. 128.