

**ENERGY EFFICIENT  
DRIVEPOWER**

**Literature Reference List  
Design Engineer's Supplement**

**PREPARED BY:**

Sadrul Ula  
Don L. Jordan  
Larry E. Birnbaum

Electrical Engineering Department  
University of Wyoming  
Laramie, Wyoming 82071

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**MASTER**

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**Drivepower Literature Reference List**  
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**What this document covers:**

This document lists a large number of information sources in the area of the efficient use of drivepower. This is a broad area, covering not just electric motors but *all* parts of the system which transports the power from when it enters a facility to when the load is driven and controlled.

It was determined during the course of the research for this reference that the information was written for all types of audiences. This was realized when the researchers, all with advanced degrees in Electrical Engineering or were working on them, encountered an article on motors which would require about a week's worth of study just to understand the jargon. As a result, the references are rated as to expected knowledge base of the reader.

The definitions of these levels are:

Foundation: This is the most basic level. Characteristics of the foundation level include canned formulas, little jargon and theory, and detailed procedures. Some of the key words that the reader should be familiar with include potential, current, resistance, volts, amps, ohms, watts, and kilowatt-hours.

Intermediate: This is expected to be the knowledge level of most of the readers of this document. These references can have some jargon, basic theory, and generalized procedures. The users of these references should recognize the following terms: power factor, torque, phase angle, momentum, friction, inductance, capacitance, impedance, and reactance.

Advanced: Items in this class can have lots of jargon. They are usually heavy on theory and often include single-variable calculus. References which deal with the design related subjects are considered to require advanced knowledge at the very least. Few procedures are found in these items, unless they relate to design procedures. Some of the areas that the reader should be familiar with include derivatives, integrals, transients, machine dynamics, system modeling, voltage drop and sag, per-unit, static fields, saturation, hysteresis, and the various types of friction.

Design Engineer: These items are intended for the person who designs the drivepower equipment. They are limited mainly to device and system design. An extensive knowledge of drivepower systems is assumed. The design engineer should be comfortable with multivariable calculus, non-linear systems, Jacobian matrices, Maxwell's equations, LaGrange's Equations, properties of materials, thermodynamics, and fluid dynamics (as appropriate for the subject matter).

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Each item in the reference list has also been classified as to its subject matter and its format. The general formats are:

Analysis Software: This is either software that is ready to run or it is a listing of a program found in the reference.

Articles: This is an article from a journal or newspaper.

Brochure: This is either a leaflet or pamphlet. They are usually distributed by manufacturers and suppliers.

Case Studies: This is usually an article which closely examines a specific installation. It can be expected to include some of the reasons behind the design choices, how the system performed, and what problems were encountered.

Databases: These items have information on a variety of drivepower or drivetrain components.

Guide Books: These are books or papers written to assist the reader in the particular subject area.

Hand Books: These are similar to guide books except that handbooks include extensive information on different elements of drivepower systems.

Peer Matching: This indicates that there is a way to talk to a person about a specific problem.

Work Books: This is similar to a guide or hand book. The difference is that a work book will also include forms for working out problems.

Video: This indicates an item which is a video tape on the specific subject.

Workshops: This indicates that the referred item is a seminar or clinic on the particular subject matter.

Other Formats: All of the formats which do not fit within the other areas are listed in this general area.

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The items in the literature reference list are also categorized according to their subject areas. These areas are as follows:

Basic Information: This area includes those items which are important in the efficient use of drivepower. Some of the subjects covered include performing and analyzing energy audits, managing facilities for optimizing energy usage, and some of the basic concepts behind the other subject areas.

Load Calculation: This area covers the means to determine what the load is (or estimate the load of a new installation).

Load Prediction: This area covers the equipment which uses load prediction (load pattern recognition) methods to control the system.

Load Monitoring: This area covers the equipment which watches the load.

System Integration: This broad area covers the selection of equipment for a facility. It also covers choosing protective devices and systems. In short, system integration is how to tie everything together.

Power Factor Correction: This area covers the different ways to improve the power factor of a facility.

Power Supply Improvements: This area covers the ways to improve the performance or characteristics of the power supply.

Motor Choices: This area ranges from what motors are available and their characteristics to the choices an engineer makes when designing a motor in order to optimize its efficiency.

Adjustable Speed Drives: This area covers all speed control methods from choosing a speed control system to designing one.

Drivetrain Components: This area covers the components of the drivepower system which are not covered elsewhere. Examples of these components are belts, chains, and gears. Lubrication (tribology) is also included in this area.

System Maintenance: This area covers the repair and upkeep of the equipment of a facility.

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Two sets of reference lists are available. The main list is for the general user of drivepower systems. The other list is a supplemental reference list for the design engineer. Some of the items will be present in both lists, primarily the items which are intended for those with intermediate to advanced knowledge of drivepower systems.

### How to use the reference list:

Each reference list has a matrix to make it easier to locate the information by subject area and format. All items in the list have unique identification numbers. Some of the items in the reference list are listed more than once. For example, some Journal Articles are also listed as Analysis Software. This is because they include the listing of a program which is appropriate to drivepower efficiency. The cells of the matrix contain all of the items in the reference list which meet the format and subject area of the cell. Once a subject area and format have been selected, the user only needs to look up the appropriate items in the reference list by their numbers. Items from independent sources have reference numbers which are italicized and underlined. Comments by these researchers are enclosed with chevrons • **comments** •.

### Other resources which can be used:

Vast amounts of information are available in the area of motor choices, adjustable speed drives, and lubrication - mainly for the design engineer. Journals of particular interest are:

- IEE Transactions (London, U.K.). Part B, Power Systems
- IEEE Transactions on Energy Conversion
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Industry Applications
- IEEE Transactions on Power Apparatus and Systems (this journal was split into three other journals in 1985)
- IEEE Transactions on Power Systems
- Soviet Electrical Engineering
- Soviet Engineering Research
- Journal of Tribology
- Lubrication
- Lubrication Engineering
- Tribology International
- Tribology Transactions
- Wear: an International Journal on the Science

The following journals are written for a more general audience:

- EC & M: Electric Construction and Maintenance
- Electric Machines and Power Systems
- Energy Engineering: Journal of the Association of Energy Engineers

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The general user of drivepower systems can also find information through the following groups:

American Council for an Energy-Efficient Economy  
The Association of Energy Engineers  
The National Appropriate Technology Assistance Service

**Resources used:**

This reference list was compiled from over 1200 technical articles, books, and reports. These were located using the following resources:

Colorado Alliance of Research Libraries (CARL) computer network. This resource has information on over one million journal articles alone.  
Energy Research Abstracts for government reports published between 1975 and 1981.

Silver Platter (C) and ERIC (C) data bases for government reports published after 1981.

Thomas Register of American Manufactures 1987 edition

The researchers also browsed the libraries of the University of Wyoming, Colorado State University, University of Colorado at Boulder, University of Colorado at Denver, Denver University, and the Denver Public Library.

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	Analysis Software	Articles	Brochures
Basic Information			
Load Calculation	688 691 694 696 706	<u>591</u> <u>609</u>	
Load Prediction		<u>617</u> <u>677</u>	
Load Monitoring		<u>545</u> <u>567</u> <u>568</u> <u>571</u> <u>598</u> <u>602</u> <u>641</u> <u>647</u> <u>652</u>	
System Integration	688 690 691 694 696 706	<u>529</u> <u>530</u> <u>537</u> <u>545</u> <u>584</u> <u>590</u> <u>594</u> <u>599</u> <u>601</u> <u>602</u> <u>618</u> <u>620</u> <u>622</u> <u>624</u> <u>629</u> <u>630</u> <u>631</u> <u>634</u> <u>638</u> <u>640</u> <u>642</u> <u>648</u> <u>649</u> <u>650</u> <u>651</u> <u>653</u> <u>654</u> <u>655</u> <u>656</u> <u>658</u> <u>659</u> <u>660</u> <u>661</u> <u>667</u>	
Power Factor Correction	688 690 691 694 696 706	<u>541</u> <u>557</u> <u>559</u> <u>561</u> <u>563</u> <u>570</u> <u>572</u> <u>578</u> <u>582</u> <u>585</u> <u>586</u> <u>588</u> <u>592</u> <u>619</u> <u>633</u> <u>636</u> <u>637</u> <u>645</u> <u>651</u> <u>653</u> <u>654</u>	
Power Supply Improvements	688 690 691 694 696 706	<u>575</u> <u>576</u> <u>577</u> <u>579</u> <u>585</u> <u>587</u> <u>594</u> <u>597</u> <u>605</u> <u>608</u> <u>655</u>	
Power Qual. Improvements	688 694 696 706	<u>535</u> <u>551</u> <u>605</u> <u>617</u> <u>678</u>	
Motor Choices	<u>549</u> <u>627</u> 691 694 696	<u>529</u> <u>530</u> <u>537</u> <u>538</u> <u>543</u> <u>550</u> <u>555</u> <u>556</u> <u>583</u> <u>593</u> <u>595</u> <u>596</u> <u>601</u> <u>610</u> <u>611</u> <u>616</u> <u>621</u> <u>628</u> <u>639</u> <u>657</u> <u>664</u> <u>665</u> <u>682</u>	
Adjustable Speed Drives		<u>530</u> <u>534</u> <u>536</u> <u>538</u> <u>539</u> <u>540</u> <u>547</u> <u>553</u> <u>558</u> <u>560</u> <u>562</u> <u>564</u> <u>566</u> <u>569</u> <u>570</u> <u>574</u> <u>577</u> <u>579</u> <u>581</u> <u>594</u> <u>600</u> <u>603</u> <u>604</u> <u>606</u> <u>610</u> <u>612</u> <u>613</u> <u>614</u> <u>615</u> <u>617</u> <u>621</u> <u>623</u> <u>626</u> <u>629</u> <u>632</u> <u>633</u> <u>634</u> <u>635</u> <u>641</u>	

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	Analysis Software	Articles	Brochures
Drivetrain Components	<u>546</u> 700	<u>532</u> <u>533</u> <u>542</u> <u>544</u> <u>565</u> <u>589</u> <u>607</u> <u>667</u> <u>668</u> <u>674</u>	701 702 704 705
System Maintenance		<u>580</u> <u>644</u> <u>663</u> <u>666</u> <u>668</u> <u>669</u> <u>670</u> <u>671</u> <u>672</u> <u>673</u>	

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	Case Studies	Databases	Guide Books
Basic Information			<u>531</u>
Load Calculation	<u>501</u>	692 695 697	
Load Prediction			
Load Monitoring			
System Integration	<u>573 643</u>	689 692 695 697	<u>506 662</u>
Power Factor Correction	<u>548 646</u>	692 695 697	<u>531</u>
Power Supply Improvements	<u>646</u>	689 692 695 697	
Power Qual. Improvements	<u>548 646</u>	695 697	
Motor Choices	<u>501</u>	692 695 697	<u>527</u>
Adjustable Speed Drives	<u>573 625</u>		<u>531 681 686</u>
Drivetrain Components	<u>507 675 680</u>		<u>508 512 513 514 515 517</u> <u>518 519 522 523 525 526</u> <u>552</u>
System Maintenance	<u>643</u>		<u>662</u>

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	Hand Books	Peer Matching	Work Books
Basic Information			
Load Calculation		<u>683</u>	
Load Prediction			
Load Monitoring			
System Integration		<u>683</u>	
Power Factor Correction		<u>683</u>	
Power Supply Improvements		<u>683</u>	
Power Qual. Improvements		<u>683</u>	
Motor Choices		<u>683</u>	
Adjustable Speed Drives	<u>511 516 524</u>	<u>683</u>	<u>684</u>
Drivetrain Components	<u>509 510 520 698 703</u>		
System Maintenance	<u>509 510</u>		

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	Video	Workshops	Other Formats
Basic Information			<u>554</u>
Load Calculation		<u>685</u>	<u>554</u>
Load Prediction			<u>676</u>
Load Monitoring			
System Integration		<u>685</u> 693	<u>528</u> <u>554</u> <u>679</u>
Power Factor Correction		<u>685</u>	<u>528</u>
Power Supply Improvements			<u>521</u>
Power Qual. Improvements			687
Motor Choices		<u>685</u>	<u>503</u> <u>504</u> <u>505</u> <u>521</u> <u>554</u>
Adjustable Speed Drives		<u>685</u>	<u>502</u> <u>505</u>
Drivetrain Components		693 699	
System Maintenance		693	

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**501: Energy Efficiency and Electric Motors**

by Arthur D. Little, Inc. ■ U. S. Department of Energy HCP/M 50217-01  
This *Case Study* is for those with intermediate to advanced level knowledge.

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This item is available through your local library.

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**502: Cost Effectiveness of 'NOLA' Controlled Motors, Including Effect of ... Harmo**

by R. D. McMaster ■ NTIS AN: ADA1447986XSP  
This *Thesis* is for those with advanced level knowledge.

**503: Permanent Magnet Motors**

by R. Richter ■ NTIS AN: DE85000660XSP SUDOC: ORNL/SUB/82-17452/1  
This *Report* is for those with advanced level knowledge.

**504: Reluctance and Doubly-Excited Reluctance Motors**

by C. J. Heyne, A. M. El-Antably ■ NTIS AN: DE85003585XSP SUDOC:  
ORNL/SUB-81-95013/1  
This *Report*, with applications, is for those with advanced level knowledge.

**505: Losses in Chopper-Controlled DC Series Motor**

by H. B. Hamilton ■ NTIS AN: N83133595XSP SUDOC: DOE/NASA/3163-1  
This *Report* is for those with advanced level knowledge.

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These items are available through your local library or from:

U. S. Department of Commerce  
National Technical Information Service  
Springfield, VA 22161  
Phone: (703) 487 - 4650

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**506: Energy Conservation in the Process Industry**

by W. F. Kenney ■ Academic Press Inc. (C) 1984  
This *Guide Book* is for those with advanced level knowledge.

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These items are available through your local library.

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- 507: Aspects of Lubricant Oxidation**  
by ASTM Special Technical Publication number 916 ■ American Society for Testing and Materials  
This *Case Study* is for those with advanced level knowledge.
- 508: Friction and Wear**  
by I. V. Kragelskii ■ Butterworth and Co., Ltd. (C) 1988  
This *Guide Book* is for those with advanced level knowledge.
- 509: CRC Handbook of Lubrication**  
by E. R. Booser ■ CRC Press (C) 1983 ■ v VI Application and Maintenance  
This *Hand Book* is for those with foundation to advanced level knowledge.
- 510: CRC Handbook of Lubrication**  
by E. R. Booser ■ CRC Press (C) 1983 ■ v VII Theory and Design  
This *Hand Book* is for those with advanced level knowledge to the design engineer.
- 511: Electric Motor Control**  
by Walter N. Alerich ■ Delmar Publishers, Inc.  
This *Hand Book* is for those with advanced level knowledge to the design engineer.
- 512: Elastohydrodynamics «Lubrication»**  
by R. Gohar ■ Ellis Horwood Ltd. (C) 1988  
This *Guide Book*, with applications, is for the design engineer.
- 513: Gear Lubrication**  
by Proceedings of a Symposium by the Mechanical Test ... Panel ■ Institute of Petroleum (C) 1966  
This *Guide Book* is for those with advanced level knowledge.
- 514: The Principles of Lubrication**  
by A. Cameron ■ John Wiley and Sons, Inc. (C) 1966  
This *Guide Book* is for the design engineer.
- 515: An Introduction to Tribology in Industry**  
by D. Summers-Smith ■ Machinery Publishing Co., The (C) 1969  
This *Guide Book*, with applications, is for those with intermediate to advanced level knowledge.
- 516: Solid-State AC Motor Controls Selection and Application**  
by Sylvester J. Campbell ■ Marcel Dekker, Inc.  
This *Hand Book* is for those with advanced level knowledge to the design engineer.

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- 517:** Proceedings - International Symposium on Lubrication and Wear  
by D. Mustey, B. Sternlicht (Editors) ■ McCutchan Publishing Co, % University of Houston (C) 1965  
This *Guide Book* is for those with advanced level knowledge to the design engineer.
- 518:** Refrigeration and Air Conditioning  
by W. F. Stoecker ■ McGraw-Hill Book Company, Inc. (C) 1958  
This *Guide Book* is for those with advanced level knowledge to the design engineer.
- 519:** Theory of Hydrodynamic Lubrication  
by O. Pinkus, B. Sternlicht ■ McGraw-Hill Book Company, Inc. (C) 1961  
This *Guide Book* is for the design engineer.
- 520:** Standard Handbook of Lubrication Engineering  
by J. J. O'Connor, J. Boyd, E. A. Avalone ■ McGraw-Hill Book Company, Inc. (C) 1968  
This *Hand Book* is for those with intermediate level knowledge to the design engineer.
- 521:** Energy Efficient Electrical Steels: Proceedings of a Symposium  
by A. R. Marder, E. T. Stephenson ■ Metallurgical Society of AIME (C) 1981  
This *Conference Proceedings* is for those with advanced level knowledge.
- 522:** The Friction and Lubrication of Solids  
by F. B. Bowden, D. Tabor ■ Oxford at the Charedon Press (C) 1950  
This *Guide Book* is for those with advanced level knowledge.
- 523:** Synthetic Lubricants  
by R. C. Gunderson, A. W. Hart (Editors) ■ Peinhold Publishing Corporation (C) 1962  
This *Guide Book* is for those with intermediate to advanced level knowledge.
- 524:** Thyristor Control of AC Motors  
by J.M.D. Murphy ■ Pergamon Press Ltd.  
This *Hand Book* is for those with advanced level knowledge to the design engineer.
- 525:** Handbook of Analytical Design for Wear  
by R. G. Boyer, T. C. Ku ■ Plenum Press (C) 1964  
This *Guide Book* is for those with advanced level knowledge.
- 526:** Theory of Lubrication with Applications to Liquid and Gas Film Lubrication  
by N. Tippei ■ Stanford University Press (C) 1962  
This *Guide Book*, with applications, is for the design engineer.
- 527:** Energy Efficient Motors and Their Application  
by Howard E. Jordan ■ Van Nostrand Reinhold Company  
This *Guide Book*, with applications, is for those with advanced level knowledge.

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- 528: Voltage and VAR Optimization for Energy Control  
by J. S. Horton ■ Virginia Polytechnic Institute and State University (C) 1983  
This *Thesis* is for the design engineer.
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These items are available through your local library.

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- 529: A Phenomena that Causes Most Severe Transients in Three-Phase Induction Motor  
by M. Akbaba ■ Electric Machines and Power Systems ■ MAR / APR 1990 v 18 n 2  
pg. 149 - 162  
This *Journal Article* is for the design engineer.
- 530: High Speed Induction Motor Drive with Active Magnetic Bearings & Sliding Mode  
by I. Boldea, N. Morcov, Al. Trica ■ Electric Machines and Power Systems ■ JUL -  
OCT 1990 v 18 n 4/5 pg. 375 - 382  
This *Journal Article* is for those with advanced level knowledge.
- 531: Industrial Energy Management and Utilization  
by L. C. Witte, P. S. Schmidt, D. R. Brown ■ Hemisphere Publishing Corporation  
This *Guide Book* is for those with intermediate to advanced level knowledge.
- 

These items are available through your local library or from:

Hemisphere Publishing Corporation  
79 Madison Avenue, Suite 1106  
New York, NY 10016-7892

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- 532: Oil-Ring Lubricators  
Machine Design ■ DEC 07 1989 v 61 n 25 pg. 111 - 115  
This *Journal Article* is for those with intermediate to advanced level knowledge.
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This item is available through your local library or from:

Penton Publishing, Incorporated  
1100 Superior Avenue  
Cleveland, OH 44114  
Phone: (216) 696 - 7000

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- 533: Mixed Lubrication**  
by B. Jacobson ■ *Wear: an International Journal on the Science* ■ FEB 01 1990 v 136 n 1 pg. 99 - 116  
This *Journal Article* is for the design engineer.
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This item is available through your local library.

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- 534: Adjustable-Speed Electric Drive of Medium and High Power According ... Motor**  
by B. S. Aleksandrovskii, N. S. Khomchenko, Yu. G. Karlinskii ■ *Soviet Electrical Engineering* ■ 1990 v 61 n 3 pg. 95 - 98  
This *Journal Article* is for those with intermediate to advanced level knowledge.
- 535: Calculation of Quality Indicators of Electrical Power in Networks with Rectif**  
by G. S. Zinov'ev, G. L. Mukhacheva ■ *Soviet Electrical Engineering* ■ 1989 v 60 n 7 pg. 105 - 108  
This *Journal Article* is for those with advanced level knowledge.
- 536: Controlling Electric Motors of Fan and Pump Units by ... Frequency Converter**  
by G. I. Bogachev ■ *Soviet Electrical Engineering* ■ 1988 v 59 n 3 pg. 47 - 51  
This *Journal Article* is for those with advanced level knowledge.
- 537: Evaluation of Noise Level of Explosion-Proof Electric Motors According to ...**  
by O. P. Muravlev, D. I. Chashchin, V. G. Glushkov ■ *Soviet Electrical Engineering* ■ 1990 v 61 n 6 pg. 35 - 38  
This *Journal Article* is for those with advanced level knowledge.
- 538: Gearless Electric Drive According to the System "Direct Frequency Changer-...**  
by L. Kh. Datskovskii, I. S. Kuznetsov, V. Ya. Orlik ■ *Soviet Electrical Engineering* ■ 1990 v 61 n 1 pg. 56 - 67  
This *Journal Article* is for those with advanced level knowledge.
- 539: Multibridge Rectifier Circuits as a Means to Solve ... Power Quality ...**  
by V. A. Chvanov ■ *Soviet Electrical Engineering* ■ v 60 n 8 pg. 1 - 11  
This *Journal Article* is for the design engineer.
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Allerton Press, Inc.  
150 Fifth Avenue  
New York, NY 10011

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- 540: Operating Considerations of Compensation Inverters**  
by I. M. Chizenko, Yu. F. Oydolob, E. A. Kudrya ■ Soviet Electrical Engineering ■ v 60  
n 7 pg. 1 - 5  
This *Journal Article* is for those with advanced level knowledge.
- 541: Quick Response Reactive Power Compensators**  
by O. G. Bulatov, V. A. Shitov ■ Soviet Electrical Engineering ■ v 60 n 7 pg. 6 - 11  
This *Journal Article* is for those with advanced level knowledge.
- 542: Selection of Optimal Dimensions of a Magnetic Bearing**  
by I. A. Vevyurko, D. M. Veinberg, E. M. Bobrov ■ Soviet Electrical Engineering ■ 1989  
v 60 n 11 pg. 109 - 113  
This *Journal Article* is for the design engineer.
- 543: Technical & Economic Evaluations ... Development of Low Power Electric Motors**  
by E. G. Gersamiya ■ Soviet Electrical Engineering ■ 1988 v 59 n 8 pg. 35 - 39  
This *Journal Article* is for the design engineer.
- 544: Automation of Selection of Rolling Bearing Types in Engineering Calculations**  
by I. Yu. Grigor'ev, A. V. Pervyshev ■ Soviet Engineering Research ■ 1990 v 10 n 3 pg.  
6 - 9  
This *Journal Article* is for those with advanced level knowledge.
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These items are available through your local library or from:

Allerton Press, Inc.  
150 Fifth Avenue  
New York, NY 10011

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- 545: Analysis of Power Monitoring on AC Induction Drive Systems**  
by J. L. Stein, Churn-Hway Wang ■ Journal of Dynamic Systems, Measurement, and  
Control ■ JUN 01 1990 v 112 n 2 pg. 239 - 248  
This *Journal Article* is for those with advanced level knowledge.
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These items are available through your local library or from:

American Society of Mechanical Engineers, The  
22 Law Drive, Box 2300  
Fairfield, NJ 07007-2300

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- 546: A Subroutine Package for Solving Slider Lubrication Problems**  
by D. C. Sun ■ Journal of Tribology ■ JAN 01 1990 v 112 n 1 pg. 84 - 91  
This *Analysis Software* is for the design engineer.
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These items are available through your local library or from:

American Society of Mechanical Engineers, The  
22 Law Drive, Box 2300  
Fairfield, NJ 07007-2300

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- 547: High-Power Factor Operation Scheme for Adjustable Speed Commutatorless Motor**  
by Shoji Fukada, Takeshi Temma ■ Electrical Engineering in Japan, The Journal of ... ■  
JUL 01 1988 v 108 n 4 pg. 85 - 94  
This *Journal Article* is for those with advanced level knowledge.
- 

This item is available through your local library or from:

Electrical Engineering in Japan  
% John Wiley and Sons, Periodicals Division  
605 Third Avenue  
New York, NY 10158

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- 548: Comparing Capacitive and LC Compensators for Power Factor Correction and ...**  
by R. K. Hartana, G. G. Richards ■ Electric Power Systems Research ■ JUL 01 1989 v  
17 n 1 pg. 57 - 64  
This *Case Study* is for the design engineer.
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These items are available through your local library or from:

Elsevier Science Publishing Company, Incorporated  
Attn: Journal Information Center  
655 Avenue of the Americas  
New York, NY 10010  
Phone: (212) 633 - 3750

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