

PACKAGE ID - 000821SUN0000 SODDIT

KWIC TITLE - Sandia One-Dimensional Direct and Inverse
Thermal Code

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 12/01/1990 **PUBLICATION DATE** - 12/01/1990

DESCRIPTION - SODDIT is a reliable tool for solving a wide variety of one-dimensional transient heat conduction problems. Originally developed in 1972 to predict the ablation of graphite/carbon bodies reentering the earth's atmosphere, it has since been modified by the authors to extend its capabilities well beyond its original scope.

PACKAGE CONTENTS - Media Directory; Software Abstract; SAND85-2478; Updated SODDIT User's Manual (Free Format Version); Media Includes Source Code, Executable Module, Read.Me File Explaining How to Use Makefile;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 Diskette

METHOD OF SOLUTION - SODDIT uses the sensitivity coefficients and the future temperature method of Beck.

COMPUTER - SUN

OPERATING SYSTEMS - Machine dependent

PROGRAMMING LANGUAGES - FORTRAN 77

SOURCE CODE AVAILABLE (Y/N) - Y

REFERENCES - B.F. Blackwell, R.W. Douglass, and H. Wolf, A User's Manual for the Sandia One-Dimensional Direct and Inverse Thermal (SODDIT) Code, SAND85-2478, December 1990.

ABSTRACT STATUS - Submitted April 17, 1995. Released screened by ESTSC 5/2/95.

SUBJECT CLASS CODE - H

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SOFTWARE ABSTRACT

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KEYWORDS -

S CODES
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PACKAGE TYPE - SCREENED