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**A Bibliography on Moving Boundary
Problems with Key Word Index**

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A BIBLIOGRAPHY ON MOVING BOUNDARY PROBLEMS

WITH KEY WORD INDEX

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PREFACE

This bibliography, concerning mainly time dependent moving boundary problems of heat and mass transfer, was originally conceived in connection with the symposium held in Gatlinburg in September, 1977. Work on the bibliography has lagged but it finished like a turtle. The bibliography is based on a collection of references which Alan Solomon and I have collected; but it has benefited from contributions from several of our friends and acquaintances. It is very nearly distinct from Colin Cryer's Bibliography on free boundary problems, University of Wisconsin-MRS Report #1793, which concerns steady-state problems.

The literature on moving boundary problems is extensive and growing. We have omitted most references from before 1965. For such the reader is referred to the bibliography by Muehlbauer and Sunderland, *Applied Mechanics Review*, Vol. 18 (December 1965), pp. 951-959. Additional references are still coming to my attention, but their arrival rate has dropped off sufficiently to justify publishing this report.

The bibliography is in two parts, a list of the references ordered by last name of the first author followed by a key word index to the titles. This index consists of the key words, in alphabetical order, each word followed by a one line identifier for each title which contains the word. These one line identifiers consist of a part of the title containing the keyword, for which an asterisk (*) is substituted, followed by the reference identifier, the first four characters of which are the first four characters of the first author's last name.

I am doubtless responsible for errors of both commission and omission. For these I apologize. The computer files will be maintained for some

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time. If errors and omissions are brought to my attention, perhaps they can be corrected in a subsequent edition.

The division of labor was approximately as follows. Alan and I collected the references; Janice assigned the reference identifiers, checked missing items and resolved conflicts as necessary and created the computer data files. I directed the project, defined the form of the actual report and developed computer programs to generate the key word index.

We hope that this bibliography will be useful to researchers and practitioners in moving boundary problems.

D. G. Wilson

Added: E. M. Sparrow and L. R. Laing have just published a "Heat Transfer Bibliography"; *Int. J. Heat and Mass Transf.*, Vol. 22, No. 6, June 1979, pp. 949-957; which contains 55 references relating to phase change problems.

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