Mathematical Programming for Business and Industry

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Mathematical Programming for Business and Industry

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MACMILLAN AND COMPANY LIMITED
Little Essex Street London, WC2
also Bombay Calcutta Madras Melbourne

THE MACMILLAN COMPANY OF CANADA LIMITED
70 Bond Street Toronto 2

ST MARTIN'S PRESS INC
175 Fifth Avenue New York NY 10010

Additional material to this book can be downloaded from <http://extra.springer.com>.

© K. B. HALEY 1967
Softcover reprint of the hardcover 1st edition 1967
First published 1967

9 × 6, 168 pages
73 line illustrations

ISBN 978-1-349-00113-2 ISBN 978-1-349-00111-8 (eBook)
DOI 10.1007/978-1-349-00111-8

Preface

The various methods of linear programming described in this book assume a knowledge of school mathematics but are developed from typical industrial problems. I have attempted to use examples to show how practical complications can be introduced into the standard routines. Some of the cases that are described were chosen from less well known fields of application.

The principle adopted has been to avoid complicated mathematical proofs but at the same time to illustrate the mathematical results. The references have been arranged into three categories namely direct references to papers, theoretical references to four standard texts, and a set of references to practical applications in various fields. In this way I hope that readers who are interested in the mathematics will find it easy to develop their interest while at the same time non-mathematical readers will not be put off by involved formulae.

Birmingham,
September 1966

K. BRIAN HALEY

To Diana

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Throughout this book most references will be given by a number. The exceptions occur to the practical methods. Four standard reference books are called I, II, III, IV and wherever possible the techniques are referred to in these by quoting the book followed by a page number. For example (Dantzig I, p. 54). For further material relevant to this chapter the reader is referred to the early chapters of the books by Dantzig (I), Gass (II), Hadley (III) and Vajda (IV).