



Operations Research

Publication details, including instructions for authors and subscription information:
<http://pubsonline.informs.org>

Books Received

To cite this article:

(1966) Books Received. Operations Research 14(2):357-359. <https://doi.org/10.1287/opre.14.2.357>

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Subsequent reflection on our earlier comments leads to one revised opinion: We regret mentioning a bifurcated book. Better to speak of two treatments of the same subject from different viewpoints. Mastery of this kind of diversity is one of the best ways really to understand a topic, and presentation of the first and third items in the title in such a double manner makes this an unusually fine book.

It is fair to warn the reader whose prime interest is games that this is not the book for him. There is but one relevant chapter that covers only the rudiments of finite, matrix games. It is there because its treatment appends nicely to the main business of the book rather than of its intrinsic interest.

RUFUS ISAACS
Center for Naval Analyses

N. PAUL LOOMBA, *Linear Programming: An Introductory Analysis*, McGraw-Hill Book Co., New York, N.Y., 1964, 300 pages, \$7.95

THE PURPOSE of this introductory text is to describe, analyze and explain the basic elements of linear programming to the beginning student. The reader's mathematical background is stipulated to be a course in high-school algebra. The author adopts what he terms an 'integrated approach' to explaining LP, i.e., using the same LP problem throughout, he describes how to solve linear programming problems by the graphical method, systematic trial-and-error methods, the vector method, and the simplex method. An economic interpretation is also offered. The hope here is to bring the reader along in easy stages and indicate how the mechanics and economic interpretations relate to each other.

The chapters are *Linear Programming and Management*, *The Graphical Method*, *Systematic Trial-and-Error Method*, *Matrices and Vectors*, *The Vector Method*, *The Simplex Method*, *The Dual*, *Degeneracy*, *The Transportation Model*, *The Assignment Model*; there are five appendices that cover linearity, linear inequalities, and linear equations. A set of problems and a short bibliography are included.

Because it lacks any mathematical vigor, this book would not be recommended for the general operations-research community. A beginning student, however, would find it useful in gaining some insight into the nature of linear programming and its scope.

SAUL I. GASS
IBM Corporation

Books Received

ROBERT N. ANTHONY, *Planning and Control Systems: A Framework for Analysis*, Division of Research, Graduate School of Business Administration, Harvard University, Boston, Massachusetts, 1965, 192 pages, \$4.00.

CLAUDE BERGE AND A. GHOUILA-HOURLI, *Programming, Games, and Transportation Networks*, John Wiley & Sons, New York, N. Y., 1965, 270 pages, \$8.75. An English translation by MAXINE MERRINGTON AND C. RAMANUJACHARYULU of a book published in French in 1962 and reviewed in this JOURNAL by HAROLD ISAACS, **II** (1963), page 286.

EDWARD C. BRYANT, *Statistical Analysis, Second Edition*, McGraw-Hill Book Co., New York, N. Y., 1966, 331 pages, \$7.95.

- M. L. BURSTEIN, A. VICTOR CABOT, JOHN W. EGAN, ARTHUR P. HURTER, JR., AND STANLEY L. WARNER, *The Cost of Trucking: Econometric Analysis*, Wm. C. Brown Co., 135 South Locust Street, Dubuque, Iowa 52003, 1965, 157 pages, \$4.50.
- GEORGE F. CARRIER, MAX KROOK, AND CARL E. PEARSON, *Functions of a Complex Variable: Theory and Technique*, McGraw-Hill Book Co., New York, N. Y., 1966, 448 pages, \$10.50.
- D. R. COX AND H. D. MILLER, *The Theory of Stochastic Processes*, John Wiley & Sons, New York, N. Y., 1965, 408 pages, \$11.50.
- G. DEBREU, *Théorie de la Valeur: Analyse Axiomatique de l'Équilibre Économique*, Dunod, Paris, France, 1966, 133 pages, 18 francs (paper). A translation into French of Cowles Foundation Monograph 17, *Theory of Value: An Axiomatic Analysis of Economic Equilibrium*, published by Wiley, New York, 1959.
- STUART E. DREYFUS, *Dynamic Programming and the Calculus of Variations*, Academic Press, New York, N. Y., 1965, 270 pages, \$9.00.
- LÁSZLÓ KALMÁR (editor), *Colloquium on the Foundations of Mathematics, Mathematical Machines and their Applications*, Akadémiai Kiadó (Publishing House of the Hungarian Academy of Sciences), Budapest, Hungary, 1965, 320 pages, \$9.00. A collection of 44 papers (20 in English, 16 in German, 6 in Russian, and 2 in French) presented at 1962 conference at Tihany, Hungary; they deal with foundations of mathematics and mathematical logic, abstract theory of automata and computers, circuit theory, mathematical linguistics and machine translation, digital computers and programming, applications of computers in economics, artificial intelligence, and machine learning.
- CECIL E. LAW AND DAVID C. LACH, *Handbook of Critical Path: The Practical Application of CPM as a Project Planning, Scheduling, and Control System*, published by the authors at P. O. Box 995, Station B, Montreal, Quebec, Canada, 1965, 295 pages, \$7.00 (paper, plastic binding).
- JULIUS MARGOLIS (editor), *The Public Economy of Urban Communities*, The Johns Hopkins Press, Baltimore, Maryland 21218, 1965, 282 pages, \$5.00 (paper). Eleven papers, plus an introduction by the editor, presented at a February 1964 Conference on Urban Public Expenditures sponsored by the Committee on Urban Economics of Resources for the Future, Inc.
- MATHEMATICS DIVISION OF THE NATIONAL PHYSICAL LABORATORY, *Modern Computing Methods, Second Edition*, Philosophical Library, New York, N. Y., 1965, 176 pages, no price. A treatment of some useful numerical methods; there is a bibliography of 217 items.
- DAVID MEISTER AND GERALD F. RABIDEAU, *Human Factors Evaluation in System Development*, John Wiley & Sons, New York, N. Y., 1965, 319 pages, \$9.95.
- J. R. MEYER, J. F. KAIN, AND M. WOHL, *The Urban Transportation Problem*, Harvard University Press, Cambridge, Massachusetts, 1965, 447 pages, \$11.95.
- PATRICK MOORE, *Naked-eye Astronomy*, W. W. Norton & Co., New York, N. Y., 1965, 277 pages, \$6.50.
- PATRICK MOORE (editor), *Yearbook of Astronomy, 1966*, W. W. Norton & Co., New York, N. Y., 1965, 190 pages, \$4.50.
- DAVID NOVICK (editor), *Program Budgeting: Program Analysis and the Federal*

Budget, Harvard University Press, Cambridge, Mass., 1965, 398 pages, \$6.50. A set of 12 essays by MELVIN ANSHEN, STEPHEN M. BARRO, GENE H. FISHER, MARVIN FRANKEL, WERNER Z. HIRSCH, MILTON A. MARGOLIS, ROLAND N. MCKEAN, JOHN R. MEYER, ARTHUR SMITHIES, GEORGE A. STEINER, and the editor.

MOSES RICHARDSON, *Fundamentals of Mathematics*, Third Edition, The MacMillan Company, New York, N. Y., 1965, 623 pages, \$7.95.

HERMAN O. STEKLER, *The Structure and Performance of the Aerospace Industry*, University of California Press, Berkeley, California, 1965, 239 pages, \$6.50.

SYSTEMS AND PROCEDURES ASSOCIATION, *Ideas for Management*, published by the Association at 7890 Brookside Drive, Cleveland, Ohio 44138, 1965, 326 pages, \$10.00. Proceedings of the 18th International Systems Meeting held in Chicago, Nov. 1-3, 1965.

SYSTEMS AND PROCEDURES ASSOCIATION, *Profile of a Systems Man*, published by the Association, 7890 Brookside Drive, Cleveland 38, Ohio, 1965, 32 pages, \$3.50. A report of a survey of salary ranges, educational backgrounds, and other data on persons in the systems field; there are comparisons with 1959 and 1955 data.

BRUCE WALLACE, *Chromosomes, Giant Molecules, and Evolution*, W. W. Norton & Co., New York, N. Y., 1966, 185 pages, \$5.00 or \$1.95 (paper). An "account of the internal proof of evolution written for the non-professional."

ALBERT WATERSTON, *Development Planning: Lessons of Experience*, The Johns Hopkins Press, Baltimore, Maryland, 1965, 726 pages, \$10.75.

Notes

THE *Journal of Management Studies* is now in its third year of publication. Its first volume (1964) contained two issues, but since then it has appeared thrice yearly.

There have been articles on management education, control systems, organizational change, the appraisal of personnel, capital expenditure decisions, the installation of computers, managerial leadership, export marketing, profit-sharing schemes, communication theory, executive pay, the replacement of fixed assets, and how middle managers spend their time. In addition, during its first two years, the Journal published 125 book reviews.

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