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- Load Systems for Maritime General Cargo from Shipper to Consignee*, Publication 1135, National Academy of Sciences-National Research Council, 2101 Constitution Ave., N. W., Washington, D. C., 20418, 1963, 100 pages, \$4.00 (paper).
- Maritime Cargo Transportation Conference, *San Francisco Port Study: Volume 1, Description and Analysis of Maritime Cargo Operations in a U. S. Port*, Publication 1140A, National Academy of Sciences-National Research Council, 2101 Constitution Ave., N. W., Washington, D. C. 20418, 1964, 156 pages, \$12.00 (price includes Vol. 2 published in September 1964).
- RICHARD H. MYERS, KAM L. WONG, AND HAROLD M. GORDY (editors), *Reliability Engineering for Electronic Systems*, John Wiley & Sons, Inc., New York, N. Y., 1964, 368 pages, \$12.50.
- National Science Foundation, *Current Projects on Economic and Social Implications of Science and Technology: 1963*, NSF 64-10, Superintendent of Documents, US Government Printing Office, Washington, D. C., 1964, 166 pages, \$0.50 (paper). A descriptive, classified, and indexed listing of 356 research projects under way in 1963; it records the results of the fifth annual NSF survey of projects on the economic and social implications of science and technology.
- National Science Foundation, *Research and Development in Industry 1961*, NSF 64-9, Superintendent of Documents, US Government Printing Office, Washington, D. C. 20402, 1964, 135 pages, 65 cents (paper).
- DAVID W. PACKER, *Resource Acquisition in Corporate Growth*, The M. I. T. Press, Cambridge, Mass., 1964, 128 pages, \$6.00.
- J. D. RADFORD AND D. B. RICHARDSON, *The Management of Production*, St. Martin's Press, Inc., 175 Fifth Ave., New York, N. Y., 1964, 287 pages, \$7.00.
- EDWARD B. ROBERTS, *The Dynamics of Research and Development*, Harper & Row, New York, N. Y., 1964, 375 pages, \$10.95.
- H. W. SINGER, *International Development: Growth and Change*, McGraw-Hill Book Co., New York, N. Y., 1964, 309 pages, \$7.50.
- RAYMOND VILLERS, *Research and Development: Planning and Control*, Financial Executives Research Foundation, Inc., 50 West 44th St., New York 36, N. Y., 1964, 199 pages, \$10.50. The report of a study "undertaken in order to determine and outline the essential ingredients of an effective system of planning and control of research and development operations."
- R. A. WARD, *Operational Research in Local Government*, Royal Institute of Public Administration and George Allen and Unwin Ltd., 24 Park Crescent, London W. 1, England, 1964, 108 pages, 12 shillings 6 pence (paper).

PERIODICALS

A New Journal

International Journal of Computer Mathematics

The first issue (May 1964) of the new *International Journal of Computer Mathematics* has appeared, with the following contents:

- A. I. MOROZ, "A Model for Discrete-Variable Linear Programming"
 R. P. HARVEY, "The Decomposition Principle for Linear Programs"

N. K. GAVURIN, "Ill Conditioned Systems of Linear Algebraic Equations"

Y. G. GRIGOR'YAN, "An Algorithm for the Solution of Systems of Logical Equations"

N. I. SOKOLOV, "Synthesis of Automatic Control Systems with Random Inputs I"

M. I. LANIN, "Calculating the Probability of Information Loss in Centralized Supervisory Systems"

The General Editor is PETER H. FRIEDLANDER, and he will be assisted by an Editorial Review Board consisting of MARCEL DAGENAIS, MONTGOMERY PHISTER, JR., and THOMAS M. STOUT. The scope and intent of the journal are described by the editors as follows:

The International Journal of Computer Mathematics publishes papers on mathematical techniques which are of interest to computer users in the fields of numerical analysis, operations research, automation, econometrics, mathematical logic, and communication.

The rapid development and widespread use of new computer-mathematical techniques, stimulated by military and commercial interest, has focused the attention of a large cross-section of scientists and technologists on the latest developments in pure and applied mathematics.

A sizeable number of journals, specializing in the above listed and related fields, including some which translate cover-to-cover some Soviet journals, report the progress which has been made.

However, there is no journal which is non-specialized, international in outlook and which steers a course midway between theoretical mathematics and actual engineering applications. That is the task the *International Journal of Computer Mathematics* wishes to perform. It seeks to give the specialists in the above listed and related fields a broader picture of the newer mathematical developments which might be of interest to him right now, or later.

Selected articles of unusual interest which have appeared in recent French, Soviet and German journals will be published in their entirety, in English.

Original articles will also be published in English, or in some cases in the author's language accompanied by an English translation.

An Editorial Board of Review, consisting of specialists in the various fields and sub-fields covered by the Journal, selects articles on the basis of unusual interest, or because they might exemplify the work of a certain school.

In view of this statement, it is interesting to note that five of the articles in the first issue were translated from Soviet journals, and the sixth is expository.

Each volume will consist of four issues. Both editorial and subscription correspondence may be addressed Gordon and Breach Science Publishers, Inc., 150 Fifth Avenue, New York, N. Y. 10011.

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Management Science, July 1964

ANTHONY V. FIACCO AND GARTH P. MCCORMICK, "Computational Algorithm for the Sequential Unconstrained Minimization Technique for Nonlinear Programming"

ALBERT H. RUBENSTEIN, "Organizational Factors Affecting Research and Development Decision-Making in Large Decentralized Companies"

- GEORGE H. HAINES, JR., "A Theory of Market Behavior after Innovation"
 WILLIAM R. KING, "Performance Evaluation in Marketing Systems"
 HELMY H. BALIGH AND LEON E. RICHARTZ, "An Analysis of Vertical Market Structures"
 YOICHIRO FUKUDA, "Optimal Policies for the Inventory Problem with Negotiable Leadtime"
 MURRAY A. GEISLER, "A Test of a Statistical Method for Computing Selected Inventory Model Characteristics by Simulation"
 JOHN S. DE CANI, "A Dynamic Programming Algorithm for Embedded Markov Chains when the Planning Horizon Is at Infinity"
 E. B. BERMAN, "Resource Allocation in a PERT Network under Continuous Time-Cost Functions"
 JAMES B. MACQUEEN, "Optimal Policies for a Class of Search and Evaluation Problems"
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 J. R. COLEMAN, JR., S. SMIDT, AND R. YORK, "Optimum Plant Design for Seasonal Production"
 W. J. CORCORAN, H. WEINGARTEN, AND P. W. ZEHNA, "Estimating Reliability after Corrective Action"
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- J. K. O'KEEFE, "An Introduction to Systems Analysis"
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 LULIAN L. KOTTLER, "The Learning Curve—A Case History in Its Application"
 ARNOLD REISMAN, "Optimal Marketing Strategy via Lagrange's Method of Undetermined Multipliers"
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 MICHAEL C. FREEMAN, "The Effects of Breakdowns and Interstage Storage on Production Line Capacity"
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 WAYLAND P. SMITH AND JASVANTRAI C. SHAH, "Design and Development of a Manufacturing Systems Simulator"
 GEORGE M. PARKS, "Multiple Criteria Sequential Work Sampling"

Metra, Volume 3 (1964), No. 2

- BASIL E. BALDREY, "Cybernetics and production"
 PIERRE GUETTA, "L'intervention du sociologue dans les études de programmation urbaine"

- JEAN DE ROSINSKI, "Étude d'un réseau d'approvisionnement, stockage, distribution de pièces de rechange et d'un circuit de réparation avec échange-standard"
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- J. TALACKO, "Natural Computational Method of Two-Person Zero-Sum Games (continued)"
- R. M. LONGMIRE AND W. J. ERIKSON, "Operational Measures of Information Characteristics"
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- F. J. FERNANDEZ AVILA AND J. RUBIO REPULLES, "El método PERT de programación reticular"
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- CLARK SLOAT AND ARTHUR B. TOAN, JR., "Decision Making—Art or Science?"
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