Operations Research

Publication details, including instructions for authors and subscription information:
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Books Received

and solutions are given at the end of the book. There is also a bibliography, and a short glossary of technical terms.

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Books Received

ROBERT P. BAUMAN, *An Introduction to Equilibrium Thermodynamics*, Prentice-Hall, Englewood Cliffs, N.J., 1966, 128 pages, $1.95 (paper).

STAFFORD BEER, *Decision and Control: The Meaning of Operational Research and Management Cybernetics*, John Wiley and Sons, New York, 1966, 568 pages, $13.50.

BUREAU OF LABOR STATISTICS, US Department of Labor, *Productivity: A Bibliography*, Bulletin No. 1514, Superintendent of Documents, US Government Printing Office, Washington, D. C., 1966, 133 pages, 65 cents (paper).

J. FARMER, *A Bibliography of Critical Path Methods*, Hampshire Technical Research Industrial Commercial Service, Central Library, Civic Centre, Southampton, United Kingdom, 1966, 77 pages, 21 shillings (plastic).

FORESTRY COMMISSION, *Mathematical Models in Forest Management*, Forest Record No. 59, Her Majesty's Stationery Office, London, United Kingdom, 1966, 48 pages, 5 shillings (paper). Seven papers offered at a meeting held at the University of Edinburgh, Scotland, 12–13 April 1965.

GEORGE C. HEMMENS, *The Structure of Urban Activity Linkages*, Center for Urban and Regional Studies, Institute for Research in Social Science, University of North Carolina, Chapel Hill, N.C., 1966, 59 pages $2.00 (paper).

FRANZ E. HOHN, *Applied Boolean Algebra: An Elementary Introduction, Second Edition*, The Macmillan Co., New York, N.Y., 1966, 287 pages, $7.95.

W. N. JESSOP (editor), *Manpower Planning: Operational Research and Personnel Research*, American Elsevier Publishing Co., Inc., New York, N.Y., 10017, 1966, 299 pages, $11.50. The proceedings of a conference sponsored by the NATO Science Committee and held at Brussels, 17–20 August 1965. There were 25 papers, of which four were reviews.

ALEC M. LEE, *Applied Queuing Theory*, St. Martin's Press, 175 Fifth Avenue, New York, N.Y., 1966, 254 pages, $8.50.

A. LIORZOU, *Initiation Pratique a la Statistique*, Sixth Edition, Editions Eyrolles, 61, Boulevard Saint-Germain, Paris V^e, France, 1966, 312 pages, 48 francs.

K. MENDELSSOHN, *The Quest for Absolute Zero: The Meaning of Low-Temperature Physics*, McGraw-Hill Book Co., New York, N.Y., 1966, 256 pages, $2.45 (paper).

NATIONAL SCIENCE FOUNDATION, *Federal Funds for Research, Development, and other Scientific Activities, Fiscal years 1965, 1966, and 1967*, NSF 66-25, Superintendant of Documents, US Government Printing Office, Washington, D. C. 1966, 205 pages, $1.25 (paper).

HORACIO C. REGGINI, *Notas y Programas de Simulacion en Computadoras*, Junta de Investigaciones Cientificas y Experimentaciones de las Fuerzas Armadas,

Avenida del Libertador 2264, P. 2, Buenos Aires, Argentina, 1965, 72 pages, no price (paper).

WILLIAM R. SMYTHE, JR., AND LYNWOOD A. JOHNSON, *Introduction to Linear Programming, with Applications*, Prentice-Hall, Englewood Cliffs, N.J., 1966, 231 pages, $10.00.

Notes

Mathematical Systems Theory, a new quarterly journal, began publication in 1967. The four Executive Editors are D. BUSHAW, Mathematics Department, Washington State University, Pullman, Washington; A. J. LOHWATER, Mathematics Department, Case Institute of Technology, Cleveland, Ohio; M. D. MESAROVIĆ, Systems Research Center, Case Institute of Technology, Cleveland, Ohio; and G. P. SZEGÖ, Istituto di Fisica, Università di Milano, Via Celoria 16, Milano, Italy. The Editorial Board consists of M. ARBIB, J. AUSLANDER, N. P. BHATIA, G. BIRKHOFF, R. CONTI, C. CORDUNEANU, H. FURSTENBERG, W. H. GOTTSCHALK, H. HALKIN, PRESTON C. HAMMER, J. HARTMANIS, G. S. JONES, R. E. KALMAN, H. W. KUHN, J. MYHILL, C. OLECH, JOHN RHODES, J. A. ROBINSON, and M. P. SCHÜTZENBERGER.

An inaugural editorial statement describes the scope of the new journal as follows:

Mathematical Systems Theory will feature articles in such fields as topological dynamics, theory of dynamical polysystems, general systems theory, formal systems theory, mathematical theory of automata and algorithms, mathematical linguistics, algebraic systems theory, ergodic theory, several aspects of the qualitative theory of differential equations and the like. In addition, papers in functional analysis, topology, algebra and logic directly related to the theory of mathematical systems will be published.

From time to time, *Mathematical Systems Theory* will contain expository papers or survey articles in the fields mentioned above, as well as in related fields. On other occasions, an entire issue of *Mathematical Systems Theory* will be devoted to one particular topic.

By publishing under a single cover contributions in these general areas presently appearing in diverse publications, it is hoped that a means may be provided for improved communication, perhaps ultimately leading to a unification of certain concepts and terminology and to the emergence of a more coherent field dealing with the mathematical problems encountered in various branches of systems theory.

The first issue has the following contents:

H. FURSTENBERG, "Disjointness in Ergodic Theory, Minimal Sets, and a Problem in Diophantine Approximation."

H. HALKIN, "Finitely Convex Sets of Nonlinear Differential Equations."

F. HAHN, "A Fixed-Point Theorem."

K. KROHN, R. MATEOSIAN, AND J. THODES, "Complexity of Ideals in Finite Semigroups and Finite State Machines."

Y. GIVE'ON, "Categories of Semimodules: The Categorical Structural Properties of Transition Systems."

D. BUSHAW, "A Stability Criterion for General Systems."