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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."

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The third issue will be devoted to the mathematical theory of automata.

Editorial correspondence should be addressed to the Executive Editors, subscription inquiries to the publishers, Springer-Verlag, New York Inc., 175 Fifth Avenue, New York, N.Y., 10010.

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