

A New Series

Applications of Mathematics

Edited by

A.V. Balakrishnan
(Managing Editor)
and W. Hildenbrand

Applied Probability—Control—Economics—Information
and Communication—Modeling and Identification—
Numerical Techniques—Optimization

A series devoted to the publication of advanced graduate-level texts in applied mathematics

Volume 1

Deterministic and Stochastic Optimal Control

By W.H. Fleming and R.W. Rishel

4 figures. IX, 222 pages. 1975. Cloth DM 60,60; US \$24.80
ISBN 3-540-90155-8

Volume 2

Methods of Numerical Mathematics

By G.I. Marchuk

Translated from the Russian by J. Ružička

10 figures. XII, 316 pages. 1975. Cloth DM 72,80; US \$29.80
ISBN 3-540-90156-6

Volume 3

Applied Functional Analysis

By A.V. Balakrishnan

Approx. 315 pages. 1976. Cloth DM 48,40; US \$19.80
ISBN 3-540-90157-4

Volume 4

Stochastic Processes in Queueing Theory

By A.A. Borovkov

Translated from the Russian by K. Wickwire

14 figures. XII, 284 pages. 1976. Cloth DM 72,80; US \$29.80
ISBN 3-540-90161-2



Springer-Verlag
Berlin
Heidelberg
New York

Forthcoming Volumes

Mathematical Theory of Economic Dynamics and Equilibria

By V.L. Makarov and A.M. Rubinov

Statistics of Random Processes

By R.S. Liptser and A.N. Shirayev

Closed Loop Differential Games

By N.N. Krassovskiy and A.N. Subbotin

Communications in

Mathematical Physics

Volume 49 Number 1 1976

Contents

T. Spencer, F. Zirilli	Scattering States and Bound States in $\lambda\mathcal{P}(\phi)_2$	1
C. J. S. Clarke	Space-Time Singularities	17
A. Bove, G. Da Prato, G. Fano	On the Hartree-Fock Time-dependent Problem	25
D. B. Abraham, P. Reed	Interface Profile of the Ising Ferromagnet in Two Dimensions	35
S. Pulmannová	A Superposition Principle in Quantum Logics	47
S. Bonanos	Hamilton-Jacobi Separable, Axisymmetric, Perfect-fluid Solutions of Einstein's Equations	53
B. M. Gurevich, Ju. M. Suhov	Stationary Solutions of the Bogoliubov Hierarchy Equations in Classical Statistical Mechanics, I	63

Indexed in Current Contents

Responsible for advertisements

Springer-Verlag
Printers
Printed in Germany

L. Siegel, Kurfürstendamm 237, D-1000 Berlin 15
Telephone: (0 30) 8 82 10 31, Telex 01-85 411
Berlin Heidelberg New York
Brühlsche Universitätsdruckerei, Gießen
© by Springer-Verlag Berlin Heidelberg 1976