

Note to Authors

To simplify the printing of mathematical formulae, authors are asked to use the forms indicated in the following examples when preparing their manuscripts.

$$7/8, (a+b)/c \quad \text{instead of} \quad \frac{7}{8}, \frac{a+b}{c}$$

$$\frac{(a/b)d}{(a/3)-(x/2)} \quad \frac{\frac{a}{b}d}{\frac{a}{3}-\frac{x}{2}}$$

$$\frac{\cos(1/x)}{(a+(b/x))^{1/2}} \quad \frac{\cos \frac{1}{x}}{\sqrt{a+\frac{b}{x}}}$$

or

$$(a+(b/x))^{-\frac{1}{2}} \cos(1/x)$$

$$\exp(-(x^2+y^2)/a^2) \quad e^{-\frac{x^2+y^2}{a^2}}$$

The use of such linearized forms can mean up to 50% saving of time to the compositor. Considering the danger of misinterpretation of formulae by a copyeditor or compositor, the publishers find it essential that this simplification in the use of such expressions should be adopted by the authors themselves who are in the best position to ensure that the meaning and intended emphasis within the formulae are preserved. Finally we ask authors to continue to follow the Instructions to Authors as usual.

We thank you for your cooperation.

Springer-Verlag

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

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. Shiriyayev

Closed Loop Differential Games

By N.N. Krassovsky and A.N. Subbotin



Springer-Verlag
Berlin
Heidelberg
New York

Communications in
**Mathematical
Physics**

Volume 48 Number 3 1976

Contents

- A. Grossmann Parity Operator and Quantization of δ -Functions 191
- A. Grossmann,
R. Seiler Heat Equation on Phase Space and the Classical
Limit of Quantum Mechanical Expectation
Values 195
- O. Adetunji Remarks on the Wilson-Zimmermann Expansion
and Some Properties of the m -Point
Distribution 199
- B. Baumgartner Thermodynamic Limit of Correlation Functions in
a System of Gravitating Fermions 207
- W. Rühl,
B. C. Yunn Operator Product Expansions in Conformally
Covariant Quantum Field Theory 215
- G. Nenciu Self-Adjointness and Invariance of the Essential
Spectrum for Dirac Operators Defined as
Quadratic Forms 235
- R. A. Holley,
D. W. Stroock Applications of the Stochastic Ising Model to the
Gibbs States 249
- M. C. Bergère,
Y.-M. P. Lam Zero-Mass Limit in Perturbative Quantum Field
Theory 267
- T. Bařaban,
K. Jezuita,
R. Raćzka Second Quantization of Classical Nonlinear Rela-
tivistic Field Theory. Part II. Construction of Rela-
tivistic Interacting Local Quantum Field 291

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
Brühsche Universitätsdruckerei, Gießen
© by Springer-Verlag Berlin Heidelberg 1976