Pacific Journal of Mathematics

G. D. Allen, F. J. Narcowich and J. P. Williams, An operator version
of a theorem of $Kolmogorov$ 305
J. Anderson and C. Foias, Properties which normal operators share with
normal derivations and related operators
C. Apostol and N. Salinas, Nilpotent approximations and quasinilpotent
operators327
J. M. Briggs, Finitely generated ideals in regular F-algebras339
F. B. Cannonito and R. W. Gatterdam, The word problem and power
problem in 1-relator groups are primitive recursive351
C. E. Corzatt, Permutation polynomials over the rational numbers361
L. S. Dube, An inversion of the S ₂ transform for generalized
functions
W. R. Emerson, Averaging strongly subadditive set functions in
unimodular amenable groups I391
B. J. Gardner, Semi-simple radical classes of algebras and attainability
of identities401
I. Glicksberg, Removable discontinuities of A-holomorphic functions417
F. Halpern, Transfer theorems for topological structures
H. B. Hamilton, T. E. Nordahl and T. Tamura, Commutative cancellative
semigroups without idempotents441
M. Hochster, An obstruction to lifting cyclic modules
A. H. Lachlan, Theories with a finite number of models in an uncountable
power are categorical465
K. B. Laursen, Continuity of linear maps from C*-algebras
TS. Liu, Oscillation of even order differential equations with deviating
arguments498
J. Martinez, Doubling chains, singular elements and hyper-% l-groups508
M. Radjabalipour and H. Radjavi, On the geometry of numerical
ranges507
T. I. Seidman, The solution of singular equations, I: Linear equations
$in\ hilbert_space$
R. J. Tomkins, Properties of martingale-like sequences
A. Van Deale, A Radon Nikodym theorem for weights on von Neumann
algebras527
K. S. Williams, On Euler's criterion for quintic nonresidues543
M. B. Wischnewsky, On linear representations of affine groups I551
S. Wolpert, Noncompleteness of the Weil-Peterson metric for Teichmüller
<i>space</i>
V. Wrobel, Some generalizations of Schauder's theorem in locally convex
spaces
B. Zimmermann-Huisgen, Endomorphism rings of self-generators587
ERRATA,

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

RICHARD ARENS (Managing Editor)

University of California Los Angeles, California 90024

R. A. BEAUMONT

University of Washington Seattle, Washington 98105 J. Dugundji

Department of Mathematics University of Southern California Los Angeles, California 90007

D. GILBARG AND J. MILGRAM

Stanford University Stanford, California 94305

ASSOCIATE EDITORS

E. F. BECKENBACH

B. H. NEUMANN

F. Wolf

K. Yoshida

SUPPORTING INSTITUTIONS

UNIVERSITY OF BRITISH COLUMBIA
CALIFORNIA INSTITUTE OF TECHNOLOGY
UNIVERSITY OF CALIFORNIA
MONTANA STATE UNIVERSITY
UNIVERSITY OF NEVADA
NEW MEXICO STATE UNIVERSITY
OREGON STATE UNIVERSITY
UNIVERSITY OF OREGON
OSAKA UNIVERSITY

UNIVERSITY OF SOUTHERN CALIFORNIA STANFORD UNIVERSITY UNIVERSITY OF TOKYO UNIVERSITY OF UTAH WASHINGTON STATE UNIVERSITY UNIVERSITY OF WASHINGTON

AMERICAN MATHEMATICAL SOCIETY

The Supporting Institutions listed above contribute to the cost of publication of this Journal, but they are not owners or publishers and have no responsibility for its content or policies.

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be in typed form or offset-reproduced, (not dittoed), double spaced with large margins. Please do not use built up fractions in the text of your manuscript. You may however, use them in the displayed equations. Underline Greek letters in red, German in green, and script in blue. The first paragraph or two must be capable of being used separately as a synopsis of the entire paper. Items of the bibliography should not be cited there unless absolutely necessary, in which case they must be identified by author and Journal, rather than by item number. Manuscripts, in triplicate, may be sent to any one of the editors. Please classify according to the scheme of Math. Reviews, Index to Vol. 39. All other communications should be addressed to the managing editor, or Elaine Barth, University of California, Los Angeles, California, 90024.

The Pacific Journal of Mathematics expects the author's institution to pay page charges, and reserves the right to delay publication for nonpayment of charges in case of financial emergency.

100 reprints are provided free for each article, only if page charges have been substantially paid. Additional copies may be obtained at cost in multiples of 50.

The Pacific Journal of Mathematics is issued monthly as of January 1966. Regular subscription rate: \$72.00 a year (6 Vols., 12 issues). Special rate: \$36.00 a year to individual members of supporting institutions.

Subscriptions, orders for back numbers, and changes of address should be sent to Pacific Journal of Mathematics, 103 Highland Boulevard, Berkeley, California, 94708.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS, A NON-PROFIT CORPORATION Printed at Kokusai Bunken Insatsusha (International Academic Printing Co., Ltd.), 8-8, 3-chome, Takadanobaba, Shinjuku-ku, Tokyo 160, Japan.

Copyright © 1975 by Pacific Journal of Mathematics Manufactured and first issued in Japan