

# Pacific Journal of Mathematics

A. A. Aucoin, <i>Diophantine systems</i> .....	419
C. S. Ballantine, <i>Products of positive definite matrices, I</i> ...	427
David Barnette, <i>A necessary condition for d-polyhedrality</i> ...	435
J. C. Beidleman and T. K. Seo, <i>Generalized Frattini subgroups of finite groups</i> .....	441
Carlos J. R. Borges, <i>A study of multivalued functions</i> .....	451
W. Edwin Clark, <i>Algebras of global dimension one with a finite ideal lattice</i> .....	463
R. B. Darst, <i>On a theorem of Nikodym with applications to weak convergence and von Neumann algebras</i> .....	473
George W. Day, <i>Superatomic Boolean algebras</i> .....	479
Lawrence Fearnley, <i>Characterization of the continuous images of all pseudo-circles</i> .....	491
Neil R. Gray, <i>Unstable points in the hyperspace of connected subsets</i> .....	515
Franklin Haimo, <i>Polynomials in central endomorphisms</i> ....	521
John S. Hsia, <i>Integral equivalence of vectors over local modular lattices</i> .....	527
J. E. Humphreys, <i>Existence of Levi factors in certain algebraic groups</i> .....	543
E. C. Lance, <i>Automorphisms of postliminal C*-algebras</i> ....	547
Sibe Mardešić, <i>Images of ordered compacta are locally peripherally metric</i> .....	557
A. W. Marshall, D. W. Walkup R. J.-B. Wets, <i>Order-preserving functions; applications to majorization and order statistics</i> .....	569
Wellington H. Ow, <i>An extremal length criterion for the parabolicity of Riemannian spaces</i> .....	585
Wellington H. Ow, <i>Criteria for zero capacity of ideal boundary components of Riemannian spaces</i> .....	591
J. H. Reed, <i>Inverse limits of indecomposable continua</i> .....	597
Joseph G. Stampfli, <i>Minimal range theorems for operators with thin spectra</i> .....	601
Roy Westwick, <i>Transformations on tensor spaces</i> .....	613
Howard H. Wicke, <i>The regular open continuous images of complete metric spaces</i> .....	621
Abraham Zaks, <i>A note on semi-primary hereditary rings</i> ...	627

# PACIFIC JOURNAL OF MATHEMATICS

## EDITORS

H. ROYDEN  
Stanford University  
Stanford, California

J. DUGUNDJI  
Department of Mathematics  
Rice University  
Houston, Texas 77001

J. P. JANS  
University of Washington  
Seattle, Washington 98105

RICHARD ARENS  
University of California  
Los Angeles, California 90024

## ASSOCIATE EDITORS

E. F. BECKENBACH

B. H. NEUMANN

F. WOLF

K. YOSIDA

## 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  
CHEVRON RESEARCH CORPORATION  
TRW SYSTEMS  
NAVAL ORDNANCE TEST STATION

---

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be typewritten (double spaced). The first paragraph or two must be capable of being used separately as a synopsis of the entire paper. It should not contain references to the bibliography. Manuscripts may be sent to any one of the four editors. All other communications to the editors should be addressed to the managing editor, Richard Arens at the University of California, Los Angeles, California 90024.

50 reprints per author of each article are furnished free of charge; additional copies may be obtained at cost in multiples of 50.

---

The *Pacific Journal of Mathematics* is published monthly. Effective with Volume 16 the price per volume (3 numbers) is \$8.00; single issues, \$3.00. Special price for current issues to individual faculty members of supporting institutions and to individual members of the American Mathematical Society: \$4.00 per volume; single issues \$1.50. Back numbers are available.

Subscriptions, orders for back numbers, and changes of address should be sent to Pacific Journal of Mathematics, 103 Highland Boulevard, Berkeley 8, California.

Printed at Kokusai Bunken Insatsusha (International Academic Printing Co., Ltd.), 7-17, Fujimi 2-chome, Chiyoda-ku, Tokyo, Japan.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS, A NON-PROFIT CORPORATION

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.