

Pacific Journal of Mathematics

T. Ando, <i>Closed range theorems for convex sets and linear liftings</i>	393
R. D. Bourgin, <i>Conically bounded sets in Banach spaces</i>	411
R. J. Buck, <i>Hausdorff dimensions for compact sets in R^n</i>	421
H. Cheng, <i>A constructive Riemann mapping theorem</i>	435
D. F. Dawson, <i>Summability of subsequences and stretchings of sequences</i>	455
W. T. Eaton, <i>A two sided approximation theorem for 2-spheres</i>	461
J. P. Fillmore and J. Scheuneman, <i>Fundamental groups of compact complete locally affine complex surfaces</i>	487
A. Friedman, <i>Bounded entire solutions of elliptic equations</i>	497
R. Gariépy, <i>Multiplicity and the area of an $(n-1)$ continuous mapping</i>	509
A. M. W. Glass, <i>Archimedean extensions of directed interpolation groups</i>	515
M. Hasumi, <i>Extreme points and unicity of extremum problems in H^1 on polydiscs</i>	523
T. Hawkes, <i>On the fitting length of a soluble linear group</i>	537
G. Helzer, <i>Semi-primary split rings</i>	541
M. Hochster, <i>Expanded radical ideals and semiregular ideals</i>	553
K. Kikuchi, <i>Starlike and convex mappings in several complex variables</i>	569
C. Lanski, <i>On the relationship of a ring and the subring generated by its symmetric elements</i>	581
J. D. Lawson, <i>Intrinsic topologies in topological lattices and semilattices</i>	593
R. B. Levow, <i>Counterexamples to conjectures of Ryser and de Oliveira</i>	603
A. Lieberman, <i>Some representations of the automorphism group of an infinite continuous homogeneous measure algebra</i>	607
W. G. McArthur, <i>G_2-diagonals and metrization theorems</i>	613
J. M. McPherson, <i>Wild arcs in three-space 2: an invariant of non-oriented local type</i>	619
H. Millington and M. Sion, <i>Inverse systems of group-valued measures</i>	637
W. Mitchell, <i>Simple periodic rings</i>	651
C. E. Moore, <i>Concrete semispaces and lexicographic separation of convex sets</i>	659
J. Pak, <i>Actions of torus T^n on $(n+1)$-manifolds M^{n+1}</i>	671
M. L. Patrick, <i>Extensions of inequalities of the Laguerre and Turán type</i>	675
H. L. Peterson, <i>Discontinuous characters and subgroups of finite index</i>	683
S. Philipp, <i>Abel summability of conjugate integrals</i>	693
R. B. Quintana, Jr. and C. R. B. Wright, <i>On groups of exponent four satisfying an Engel condition</i>	701
M. C. Rayburn, <i>On Hausdorff compactifications</i>	707
M. Ribe, <i>Necessary convexity conditions for the Hahn-Banach theorem in metrizable spaces</i>	715
R. Sato, <i>On a decomposition of transformations in infinite measure space</i>	733
P. D. Taylor, <i>Subgradients of a convex function obtained from a directional derivative</i>	739
J. W. Thomas, <i>A bifurcation theorem for k-set contractions</i>	749
C. E. Weil, <i>A topological lemma and applications to real functions</i>	757
S. A. Williams, <i>A nonlinear elliptic boundary value problem</i>	767
P.-K. Wong, <i>*-Actions in A^*-algebras</i>	775

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

H. SAMELSON

Stanford University
Stanford, California 94305

J. DUGUNDJI

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

C. R. HOBBY

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. 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
NAVAL WEAPONS CENTER

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. 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. The editorial "we" must not be used in the synopsis, and 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 duplicate if possible, may be sent to any one of the four editors. Please classify according to the scheme of Math. Rev. Index to Vol. 39. All other communications to the editors should be addressed to the managing editor, Richard Arens, University of California, Los Angeles, California, 90024.

50 reprints are provided free for each article; 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: \$48.00 a year (6 Vols., 12 issues). Special rate: \$24.00 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.), 270, 3-chome Totsuka-cho, Shinjuku-ku, Tokyo 160, Japan.