

Pacific Journal of Mathematics

D. P. Bellamy, <i>Composants of Hausdorff indecomposable continua; A mapping approach</i>	303
C. Bennett, <i>A Hausdorff-Young theorem for rearrangement-invariant spaces</i>	311
R. Bleier and P. Conrad, <i>The lattice of closed ideals and a^*-extensions of an abelian l-group</i>	329
R. E. Bruck, Jr., <i>Nonexpansive projections on subsets of Banach spaces</i>	341
R. C. Busby, <i>Centralizers of twisted group algebras</i>	357
M. J. Canfell, <i>Dimension theory in zero-set spaces</i>	393
J. Dauns, <i>One sided prime ideals</i>	401
C. F. Dunkl, <i>Structure hypergroups for measure algebras</i>	413
R. Gariepy, <i>Geometric properties of Sobolev mappings</i>	427
R. Gellar and L. Page, <i>A new look at some familiar spaces of intertwining operators</i>	435
D. M. Girard, <i>The behavior of the norm of an automorphism of the unit disk</i>	443
G. R. Gordh, Jr., <i>Terminal subcontinua of hereditarily unicoherent continua</i>	457
J. A. Guthrie, <i>Mapping spaces and cs-networks</i>	465
N. Hindman, <i>The product of F-spaces with P-spaces</i>	473
M. A. Labbé and J. Wolfe, <i>Isomorphic classes of the spaces $C_\sigma(S)$</i>	481
E. Michael, <i>On k-spaces, k_R-spaces and $k(X)$</i>	487
D. S. Passman, <i>Primitive group rings</i>	499
C. P. L. Rhodes, <i>A note on primary decompositions of a pseudovaluation</i>	507
M. Robertson, <i>A class of generalized functional differential equations</i>	515
R. Silverman, <i>Decomposition of plane convex sets, Part I</i>	521
E. L. Stitzinger, <i>On saturated formations of solvable Lie algebras</i>	531
B. A. Troesch, <i>Sloshing frequencies in a half-space by Kelvin inversion</i>	539
L. E. Ward, Jr., <i>Fixed point sets</i>	553
M. J. Westwater, <i>Hilbert transforms, and a problem in scattering theory</i>	567
M. Zafran, <i>On the spectra of multipliers</i>	609

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

D. GILBARG AND J. MILGRAM

Stanford University
Stanford, California 94305

J. DUGUNDJI*

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

R. A. BEAUMONT

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. 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.

* C. DePrima will replace J. Dugundji until August 1974.

Copyright © 1973 by
Pacific Journal of Mathematics
All Rights Reserved