Pacific Journal of Mathematics

VOLUME LVIII

1975

CONTENTS

Zvi Artstein and John A. Burns, Integration of compact set-valued
functions
J. A. Beachy and W. D. Blair, <i>Rings whose faithful left ideals are</i> cofaithful 1
Mark Benard, Characters and Schur indices of the unitary reflection
<i>group</i> [321] ³
E Dormon Matrix rings over nohunomial identity rings II
E. Berman, Matrix rings over polynomial identity rings II
functions of absolutely continuous distributions
Monte B. Boisen, Jr. and Philip B. Sheldon, Pre-Prüfer rings
A. K. Boyle and K. R. Goodearl, Rings over which certain modules
are injective
J. L. Brenner, R. M. Crabwell and J. Riddell, <i>Covering theorems for</i>
finite nonabelian simple groups. V
H. H. Brungs, Three questions on duo rings
Iracema M. Bund, Birnbaum-Orlicz spaces of functions on groups 351
John D. Elwin and Donald R. Short, <i>Branched immersions between</i>
2-manifolds of higher topological type
J. K. Finch, The single valued extension property on a Banach
space
J. R. Fisher, A Goldie theorem for differentiably prime rings
Eric M. Friedlander, Extension functions for rank 2, torsion free
abelian groups
J. Froemke and R. Quackenbusch, The spectrum of an equational
class of groupoids
D. J. Oatoniet, Rudicuis of supplementary semilattice sums of
associative rings
G. R. Gordh, Jr. and Sibe Mardešić, <i>Characterizing local connected</i> -
ness in inverse limits
S. Graf, On the existence of strong liftings in second countable topological spaces
topological spaces
S. Gudder and D. Strawther, Orthogonally additive and orthogonally
increasing functions on vector spaces427
F. Hansen, On one-sided prime ideals
D. J. Hartfiel and C. J. Maxson, A characterization of the maximal
monoids and maximal groups in βx437
Robert E. Hartwig and S. Brent Morris, The universal flip matrix and
the generalized faro-shuffle445

William E. Haver, Mappings between ANRs that are fine homotopy
equivalences
J. C. Helton, Product integrals and the solution of integral
equations
J. Bockett Hunter, Moment sequences in l ^p 463
Barbara Jeffcott and W. T. Spears, Semimodularity in the
completion of a poset
B. E. Johnson and J. P. Williams, <i>The range of a normal derivation</i> 105
Jerry Johnson, A note on Banach spaces of Lipschitz functions 475
D. Jonah and B. M. Schreiber, Transitive affine transformations on
groups
Karsten Juul, Some three-point subset properties connected with
Menger's characterization of boundaries of plane convex sets511
R. B. Kirk, The Haar integral via non-standard analysis
K. Kreith, A dynamical criterion for conjugate points
Justin T. Lloyd and W. G. Smiley, III, On the group of permutations
with countable support
Erwin Lutwak, Dual mixed volumes
R. A. McCoy, Baire spaces and hyperspaces
J. N. McDonald, Isometries of the disk algebra
Mark Mahowald, The index of a tangent 2-field
Keith Miller, Logarithmic convexity results for holomorphic
semigroups
Paul Milnes, Extension of continuous functions on topological
semigroups
H. Minc, Doubly stochastic matrices with minimal permanents155
S. Noorvash, Covering the vertices of a graph by vertex-disjoint
<i>paths</i>
T. W. Palmer, Jordan *-homomorphisms between reduced Banach *-algebras
*-algebras
D. S. Passman, On the semisimplicity of group rings of some locally
finite groups
M. Petrich, Varieties of orthodox bands of groups
Kenneth C. Pietz, Cauchy transforms and characteristic functions 563
R. H. Redfield, The generalized interval topology on distributive
lattices
James T.Rogers, Jr., Whitney continua in the hyperspace $c(x)$
Jean-Marie Rolin, The inverse of a continuous additive functional585
William H. Ruckle, Absolutely divergent series and isomorphism of
subspaces
Rolf Schneider, A measure of convexity for compact sets
Alan H. Schoenfeld, Continuous measure-preserving maps onto
Peano spaces
V. Merriline Smith, Strongly superficial elements

J. W. Stepp, Algebraic maximal semilattices	243
P. N. Stewart, A sheaf theoretic representation of rings with Boolean	
orthogonalities	249
Ting On To and Yip Kai Wing, A generalized Jensen's inequality	255
A. L. Villone, Second order differential operators with self-adjoint	
extensions	261
M. E. Walter, On the structure of the Fourier-Stieltjes algebra	267
Roger Ware, A note on quadratic forms over Pythagorean fields	551
J. Wermer, Subharmonicity and hulls	283
Roger Wiegand and Sylvia Wiegand, Finitely generated modules over	
Bezout rings	655
E. P. Woodruff, A map of E^3 onto E^3 taking no disk onto a disk	291
Martin Ziegler, A counterexample in the theory of definable	
automorphisms	665
-	

Pacific Journal of Mathematics

J. A. Beachy and W. D. Blair, Rings whose faithful left ideals are cofaithful 1
H. L. Bentley and B. J. Taylor, Wallman rings 15
E. Berman, Matrix rings over polynomial identity rings II
A. K. Boyle and K. R. Goodearl, Rings over which certain modules
are injective
J. L. Brenner, R. M. Crabwell and J. Riddell, Covering theorems for finite
nonabelian simple groups. V 55
J. K. Finch, The single valued extension property on a Banach space 61
J. R. Fisher, A Goldie theorem for differentiably prime rings 71
F. Hansen, On one-sided prime ideals 79
J. C. Helton, Product integrals and the solution of integral equations 87
B. E. Johnson and J. P. Williams, The range of a normal derivation105
K. Kreith, A dynamical criterion for conjugate points
R. A. McCoy, Baire spaces and hyperspaces
J. N. McDonald, Isometries of the disk algebra143
H. Minc, Doubly stochastic matrices with minimal permanents155
S. Noorvash, Covering the vertices of a graph by vertex-disjoint paths159
T. W. Palmer, Jordan *-homomorphisms between reduced Banach
*-algebras
D. S. Passman, On the semisimplicity of group rings of some locally finite
groups
M. Petrich, Varieties of orthodox bands of groups
R. H. Redfield, The generalized interval topology on distibutrive lattices219
J. W. Stepp, Algebraic maximal semilattices243
P. N. Stewart, A sheaf theoretic representation of rings with Boolean
orthogonalities249
Ting On To and Yip Kai Wing, A generalized Jensen's inequality255
A. L. Villone, Second order differential operators with self-adjoint
extensions
M. E. Walter, On the structure of the Fourier-Stieltjes algebra
J. Wermer, Subharmonicity and hulls
E. P. Woodruff, A map of E ³ onto E ³ taking no disk onto a disk291

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

RICHARD ARENS (Managing Editor)

University of California Los Angeles, California 90024 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

R. A. BEAUMONT

University of Washington

Seattle, Washington 98105

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 contents 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, may be sent to any one of the four 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.

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 Jerusalem Academic Press, POB 2390, Jerusalem, Israel.

> Copyright © 1975 Pacific Journal of Mathematics All Rights Reserved