# Pacific Journal of Mathematics

Dallas O. Banks, Lower bounds for the eigenvalues of a vibrating string whose density satisfies a Lipschitz condition
Ralph J. Bean, Decompositions of $E^{s}$ which yield $E^{s}$ 411
Robert B. Brown, On generalized Cayley-Dickson algebras415
Richard D. Byrd, Complete distributivity in lattice-ordered
groups
R. S. Countryman, Jr., On the characterization of compact
Hausdorff X for which $C(X)$ is algebraically closed433
Cecil Craig, Jr. and A. J. Macintyre, Inequlities for
functions regular and bounded in a circle449
Takesi Isiwata, Mappings and spaces
D. L. Outcalt, Power-associative algebras in which every
subalgebra is an ideal481
Sidney C. Port, Equilibrium systems of stable processes487
Jack Segal, Quasi dimension type. I. Types in the real line501
Robert W. Stringall, Endomorphism rings of primary
abelian groups535
W. J. Sweeney, 'The δ-Poincaré estimate'559
L. Tzafriri, Operators commuting with Boolean algebras
of projections of finite multiplicity

# PACIFIC JOURNAL OF MATHEMATICS

### EDITORS

J. Dugundji

University of Southern California Los Angeles, California 90007

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

H. SAMELSON

J. P. JANS

Stanford University

Stanford, California

University of Washington

Seattle, Washington 98105

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.), No. 6, 2-chome, Fujimi-cho, 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.