Pacific Journal of Mathematics

S. Bachmuth and H. Y. Mochizuki, Kostrikin's theorem on
Engel groups of prime power exponent
P. R. Beesack and K. M. Das, Extensions of Opial's inequality
J. H. E. Cohn, Some quartic diophantine equations233
H. P. Dikshit, Absolute $(C, 1) \cdot (N, p_n)$ summability of a
Fourier series and its conjugate series
Raouf Doss, On measures with small transforms257
Charles Fefferman, L_r spaces over finitely additive measures265
Le Baron O. Ferguson, Uniform approximation by polynomials with integral coefficients II273
T. Ito and T. Seidman, Bounded generators of linear spaces283
Masako Izumi and Shin-ichi Izumi, Nörlund summability of Fourier series
D. G. James, On Witt's theorem for unimodular quadratic
forms
J. L. Kelley and E. H. Spanier, Euler characteristics317
C. W. Kohls and L. J. Lardy, Some ring extensions with
matrix representations
Ray Mines, A family of functors defined on generalized
primary groups
Louise A. Raphael, A characterization of integral operators
on the space of Borel measurable functions bounded
with respect to a weight function
Charles Ryavec, The addition of residue classes modulo n367
H. M. Srivastava, Fractional integration and inversion
$formulae \ associated \ with \ the \ generalized \ Whittaker$
transform375
E. L. Stout, The second cousin problem with bounded data379
Donald Curtis Taylor, A generalized Fatou theorem for
Banach algebras
Bui An Ton, Boundary value problems for elliptic convolu-
tion equations of Wiener-Hopf type in a bounded region. 395
Philip C. Tonne, Bounded series and Hausdorff matrices for
absolutely convergent sequences

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

H. ROYDEN

Stanford University Stanford, California

J. P. JANS

University of Washington Seattle, Washington 98105 J. Dugundji

Department of Mathematics 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

STANFORD UNIVERSITY UNIVERSITY OF TOKYO UNIVERSITY OF UTAH WASHINGTON STATE UNIVERSITY UNIVERSITY OF WASHINGTON

AMERICAN MATHEMATICAL SOCIETY CHEVRON RESEARCH CORPORATION TRW SYSTEMS NAVAL WEAPONS CENTER

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be in typed form or offset-reproduced, 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. It should not contain references to the bibliography. Manuscripts, in duplicate if possible, 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, University of California, Los Angeles, California 90024.

Each author of each article receives 50 reprints 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 of publishers and have no responsibility for its content or policies.