

# Pacific Journal of Mathematics

<b>D. F. Anderson, D. E. Dobbs, P. M. Eakin, Jr., and W. J. Heinzer</b> , On the generalized principal ideal theorem and Krull domains . . . . .	201
<b>R. C. Bradley</b> , On $\rho$ -mixing except on small sets . . . . .	217
<b>D. H. Collingwood and B. Shelton</b> , A duality theorem for extensions of induced highest weight modules . . . . .	227
<b>G. H. Fricke and J. A. Fridy</b> , Sequence transformations that guarantee a given rate of convergence . . . . .	239
<b>M. J. Heumos and S. Rallis</b> , Symplectic-Whittaker models for $Gl_n$ . . . . .	247
<b>S. T. Melo</b> , A comparison algebra on a cylinder with semi-periodic multiplications . . . . .	281
<b>D. Pecker</b> , On the elimination of algebraic inequalities . . . . .	305
<b>G. Price</b> , The $C^*$ -algebras generated by pairs of semigroups of isometries satisfying certain commutation relations . . . . .	315
<b>J. K. Sauter, Jr.</b> , Isomorphisms among monodromy groups and applications to lattices in $PU(1, 2)$ . . . . .	331
<b>S. Yokura</b> , A formula for Segre classes of singular projective varieties . . . . .	385

*Subject listing on back cover*

# PACIFIC JOURNAL OF MATHEMATICS

## EDITORS

V. S. VARADARAJAN  
(Managing Editor)  
University of California  
Los Angeles, CA 90024-1555-05

HERBERT CLEMENS  
University of Utah  
Salt Lake City, UT 84112

THOMAS ENRIGHT  
University of California, San Diego  
La Jolla, CA 92093

R. FINN  
Stanford University  
Stanford, CA 94305

HERMANN FLASCHKA  
University of Arizona  
Tucson, AZ 85721

VAUGHAN F. R. JONES  
University of California  
Berkeley, CA 94720

STEVEN KERCKHOFF  
Stanford University  
Stanford, CA 94305

C. C. MOORE  
University of California  
Berkeley, CA 94720

MARTIN SCHARLEMANN  
University of California  
Santa Barbara, CA 93106

HAROLD STARK  
University of California, San Diego  
La Jolla, CA 92093

## ASSOCIATE EDITORS

R. ARENS

E. F. BECKENBACH  
(1906–1982)

B. H. NEUMANN

F. WOLF  
(1904–1989)

K. YOSHIDA

## SUPPORTING INSTITUTIONS

UNIVERSITY OF ARIZONA  
UNIVERSITY OF BRITISH COLUMBIA  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
UNIVERSITY OF CALIFORNIA  
MONTANA STATE UNIVERSITY  
UNIVERSITY OF NEVADA, RENO  
NEW MEXICO STATE UNIVERSITY  
OREGON STATE UNIVERSITY

UNIVERSITY OF OREGON  
UNIVERSITY OF SOUTHERN CALIFORNIA  
STANFORD UNIVERSITY  
UNIVERSITY OF HAWAII  
UNIVERSITY OF TOKYO  
UNIVERSITY OF UTAH  
WASHINGTON STATE UNIVERSITY  
UNIVERSITY OF WASHINGTON

---

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. Please do not use built up fractions in the text of the manuscript. However, you may use them in the displayed equations. Underline Greek letters in red, German in green, and script in blue. The first paragraph must be capable of being used separately as a synopsis of the entire paper. In particular it should contain no bibliographic references. Please propose a heading for the odd numbered pages of less than 35 characters. Manuscripts, in triplicate, may be sent to any one of the editors. Please classify according to the 1980 *Mathematics Subject Classification* (1985 Revision) scheme which can be found in the December index volumes of *Mathematical Reviews*. Supply name and address of author to whom proofs should be sent. All other communications should be addressed to the managing editor, or Elaine Barth, University of California, Los Angeles, California 90024-1555-05.

There are page-charges associated with articles appearing in the *Pacific Journal of Mathematics*. These charges are expected to be paid by the author's University, Government Agency or Company. If the author or authors do not have access to such Institutional support these charges are waived. Single authors will receive 50 free reprints; joint authors will receive a total of 100 free reprints. Additional copies may be obtained at cost in multiples of 50.

---

The *Pacific Journal of Mathematics* (ISSN 0030-8730) is published monthly. Regular subscription rate: \$190.00 a year (12 issues). Special rate: \$95.00 a year to individual members of supporting institutions.

Subscriptions, orders for numbers issued in the last three calendar years, and changes of address should be sent to Pacific Journal of Mathematics, P.O. Box 969, Carmel Valley, CA 93924, U.S.A. Old back numbers obtainable from Kraus Periodicals Co., Route 100, Millwood, NY 10546.

---

The Pacific Journal of Mathematics at P.O. Box 969, Carmel Valley, CA 93924 (ISSN 0030-8730) is published monthly. Second-class postage paid at Carmel Valley, California 93924, and additional mailing offices. Postmaster: send address changes to Pacific Journal of Mathematics, P.O. Box 969, Carmel Valley, CA 93924.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS, A NON-PROFIT CORPORATION

Copyright © 1990 by Pacific Journal of Mathematics