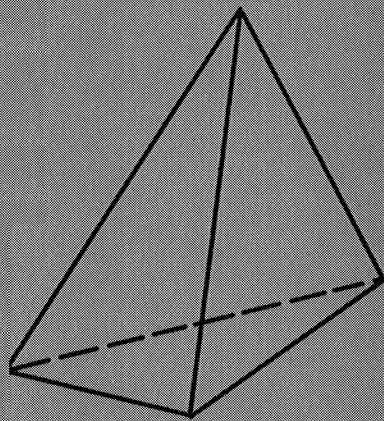


Pacific Journal of Mathematics



IN THIS ISSUE—

Civin, Paul, <i>Orthonormal cyclic groups</i>	481
Cooke, K. L., <i>The rate of increase of real continuous solutions of algebraic differential-difference equations of the first order</i>	483
Davis, Philip, <i>Linear functional equations and interpolation series</i>	503
Herzog, Fritz and Piranian, George, <i>Sets of radial continuity of analytic functions</i>	533
Rosenbloom, P. C., <i>Comments on the preceding paper by Herzog and Piranian</i>	539
Higman, D. G., <i>Remarks on splitting extensions</i>	545
Jackson, Margaret, <i>Transformations of series of the type ${}_3\Psi_3$</i>	557
Rubin, Herman, and Suppes, Patrick, <i>Transformations of system of relativistic particle mechanics</i>	563
Seidenberg, A., <i>On the dimension theory of rings (II)</i>	603
Yood, Bertram, <i>Difference algebras of linear transformations on a Banach space</i>	615

Vol. 4, No. 4

December, 1954

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

M.M. SCHIFFER*

Stanford University
Stanford, California

E. HEWITT

University of Washington
Seattle 5, Washington

R.P. DILWORTH

California Institute of Technology
Pasadena 4, California

E.F. BECKENBACH**

University of California
Los Angeles 24, California

ASSOCIATE EDITORS

H. BUSEMANN

HERBERT FEDERER

MARSHALL HALL

P.R. HALMOS

HEINZ HOPF

R.D. JAMES

BØRGE JESSEN

PAUL LÉVY

GEORGE PÓLYA

J.J. STOKER

E.G. STRAUS

KÔSAKU YOSIDA

SPONSORS

UNIVERSITY OF BRITISH COLUMBIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

UNIVERSITY OF CALIFORNIA, BERKELEY

UNIVERSITY OF CALIFORNIA, DAVIS

UNIVERSITY OF CALIFORNIA, LOS ANGELES

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

UNIVERSITY OF NEVADA

OREGON STATE COLLEGE

UNIVERSITY OF OREGON

UNIVERSITY OF SOUTHERN CALIFORNIA

STANFORD RESEARCH INSTITUTE

STANFORD UNIVERSITY

WASHINGTON STATE COLLEGE

UNIVERSITY OF WASHINGTON

* * *

AMERICAN MATHEMATICAL SOCIETY

HUGHES AIRCRAFT COMPANY

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be typewritten (double spaced), and the author should keep a complete copy. Manuscripts may be sent to any of the editors. Manuscripts intended for the outgoing editors should be sent to their successors. All other communications to the editors should be addressed to the managing editor, E.G. Straus, at the University of California Los Angeles 24, California.

50 reprints 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 quarterly, in March, June, September, and December. The price per volume (4 numbers) is \$12.00; single issues, \$3.50; back numbers (Volumes 1, 2, 3) are available at \$2.50 per copy. Special price to individual faculty members of supporting institutions and to individual members of the American Mathematical Society: \$4.00 per volume; single issues, \$1.25.

Subscriptions, orders for back numbers, and changes of address should be sent to the publishers, University of California Press, Berkeley 4, California.

Printed at Ann Arbor, Michigan. Entered as second class matter at the Post Office, Berkeley, California.

* To be succeeded in 1955, by H.L. Royden, Stanford University, Stanford, California.

** To be succeeded in 1955, by E.G. Straus, University of California, Los Angeles 24, Calif.

UNIVERSITY OF CALIFORNIA PRESS • BERKELEY AND LOS ANGELES

COPYRIGHT 1954 BY PACIFIC JOURNAL OF MATHEMATICS