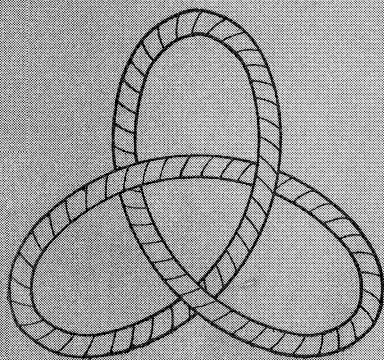


Pacific Journal of Mathematics



CONTENTS

- Richard F. Arens and James Eells, Jr., *On embedding uniform and topological spaces*397
- N. Aronszajn and P. Panitchpakdi, *Extension of uniformly continuous transformations and hyperconvex metric spaces*405
- K. L. Chung and C. Derman, *Non-recurrent random walks*...441
- H. H. Corson, *On some special systems of equations*449
- Charles W. Curtis, *On Lie algebras of algebraic linear transformations*453
- I. Heller, *Neighbor relations on the convex of cyclic permutations*467
- Solomon Leader, *Convergence topologies for measures and the existence of transition probabilities*479
- D. H. Lehmer, *On certain character matrices*.....491
- Michael Maschler, *Minimal domains and their Bergman kernel function*501
- Wm. M. Myers, Jr., *Functionals associated with a continuous transformation*517
- Irving Reiner and J. D. Swift, *Congruence subgroups of matrix groups*529
- Andrew Sobczyk, *Simple families of lines*.....541
- Charles Standish, *A class of measure preserving transformations*553
- J. M. Stark, *On distortion in pseudo-conformal mapping*.....565

Vol. 6, No. 3

Fall 1956

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

H. L. ROYDEN
Stanford University
Stanford, California

E. HEWITT
University of Washington
Seattle 5, Washington

R. P. DILWORTH
California Institute of Technology
Pasadena 4, California

A. HORN*
University of California
Los Angeles 24, California

ASSOCIATE EDITORS

E. F. BECKENBACH
C. E. BURGESS
H. BUSEMANN
H. FEDERER

M. HALL
P. R. HALMOS
V. GANAPATHY IYER
R. D. JAMES

M. S. KNEBELMAN
I. NIVEN
T. G. OSTROM
M. M. SCHIFFER

J. J. STOKER
G. SZEKERES
F. WOLF
K. 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
MONTANA STATE UNIVERSITY
UNIVERSITY OF NEVADA
OREGON STATE COLLEGE
UNIVERSITY OF OREGON
UNIVERSITY OF SOUTHERN CALIFORNIA

STANFORD RESEARCH INSTITUTE
STANFORD UNIVERSITY
UNIVERSITY OF UTAH
WASHINGTON STATE COLLEGE
UNIVERSITY OF WASHINGTON

* * *

AMERICAN MATHEMATICAL SOCIETY
HUGHES AIRCRAFT COMPANY
SHELL DEVELOPMENT 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, Alfred Horn 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 are available. 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 Pacific Journal of Mathematics, c/o University of California Press, Berkeley 4, California.

Printed at Kokusai Bunken Insatsusha (International Academic Printing Co., Ltd.), No. 10, 1-chome, Fujimi-cho, Chiyoda-ku, Tokyo, Japan.

* During the absence of E. G. Straus.

PUBLISHED BY PACIFIC JOURNAL OF MATHEMATICS, A NON-PROFIT CORPORATION
COPYRIGHT 1956 BY PACIFIC JOURNAL OF MATHEMATICS