Volume 28, 1981, Issue No. 3

The Michigan Mathematical Journal

MANAGING EDITOR
Carl M. Pearcy

ASSOCIATE EDITORS
Morton Brown
Melvin Hochster
Hugh L. Montgomery
B. Alan Taylor

TECHNICAL EDITORS
C. V. Pearcy

BUSINESS MANAGER
Robert W. Puster

DEPARTMENT OF MATHEMATICS
THE UNIVERSITY OF MICHIGAN
ANN ARBOR, MICHIGAN, U.S.A.

ISSN 0026-2285

The Michigan Mathematical Journal is published by the Department of Mathematics at the University of Michigan and endeavors to publish significant research articles in all areas of mathematics. One volume is published each year, and each volume consists of three issues. The subscription price is $30 per volume (postage included); single issues may be purchased for $10. Subscriptions intended for the private use of individuals are available at the reduced rate of $12.50 per volume.

Subscription orders should be sent to the Business Manager, Michigan Mathematical Journal, Department of Mathematics, University of Michigan, Ann Arbor, Michigan, 48109. All subscriptions must be prepaid in U.S. funds. The Journal will accept payment for subscriptions one, two, or three years in advance. Checks and money orders should be made payable to the Michigan Mathematical Journal.

Volumes 10 through 23 (1963–1976) consist of four issues per volume; earlier volumes vary in size from one to three issues. Volumes 10 through 26 may be purchased from the publisher at the price of $30 per volume. Volumes 1 through 9 are no longer available from the University of Michigan; they may be purchased from the Johnson Reprint Corporation, 111 Fifth Avenue, New York, N.Y., 10003.

To submit a paper for publication, an author should send two copies of the manuscript to the Managing Editor, Michigan Mathematical Journal, University of Michigan, Ann Arbor, Michigan, 48109. The submission of a paper implies the author's assurance that it has not been copyrighted, published, or submitted for publication elsewhere. Preference will be given to manuscripts between ten and forty pages in length. All authors of papers accepted for publication will be required to sign a transfer of copyright agreement.

An author will receive 100 offprints of his published article; joint authors will share 100 copies. To help defray the cost of publication of the Journal, page charges of $20 per printed page will be billed to the author's institution. If the institution is unable to pay these charges, it will be billed for the cost of the offprints alone. In exceptional cases, the publishers will waive all charges.

Authors should strive for expository clarity and good literary style. Manuscripts lacking in these respects will not be published. Manuscripts submitted for publication should be neatly typed on one side of the page only, double spaced (including references), with generous margins. Diagrams should be drawn with black India ink on separate sheets of glossy white paper and be suitable for photographic reproduction. Hand inserted symbols should be well-spaced and legible; unusual symbols and complicated combinations of symbols should be avoided. Acknowledgments of grant support should be placed after the references, which should be in alphabetical-chronological order. Abbreviations of names of journals and references to books should follow the standard form established by Mathematical Reviews.

Copyright © by the University of Michigan, 1981

CONTENTS

Page

W. T. Sledd
Random series which are BMO or Bloch 259

Karl Heinz Dovermann
$\mathbf{Z}_2$ Surgery theory 267

Morris Kalka, Bernard Shiffman and Bun Wong
Finiteness and rigidity theorems for holomorphic mappings 289

Ch. Pommerenke
On Fuchsian groups of divergence type 297

Sorin Popa
On the Russo-Dye theorem 311

James T. Rogers, Jr.
Homogeneous, separating plane continua are decomposable 317

C. C. Cheng and Y. C. Wu
An eight-term exact sequence associated with a group extension 323

Tilla Klotz Milnor
The energy 1 metric on harmonically immersed surfaces 341

Peter B. Shalen
A torus theorem for regular branched covers of S^3 347

C. Goffman and T. Nishiura
De Giorgi perimeter, Lebesgue area, Hausdorff measure 359

R. Daniel Mauldin and A. H. Stone
Realizations of maps 369

Jeffrey Lang
An example related to the affine theorem of Castelnuovo 375