### VOLUME 6 NO. 2 - 1980-81

# REAL ANALYSIS EXCHANGE

CONTENTS						
EDITORIAL MESSAGES	•	•				13
SUMMER SYMPOSIUM ANNOUNCEMENT .						13
TOPICAL SURVEY M. D. Rice Uniform Ideas in Analysis						. 13
RESEARCH ARTICLES  R. O. Davies  Non-Monotonic Implies Very Oscillatory						.3 18
W. E. Clark and A. Mukherjea  Comments on a Functional Equation						. 19
R. O. Davies  On the Baire Class of a Mixed Second Derivative.						. 20
B. Cristian and I. Tevy On Characterizing Connected Functions						. 20
INROADS B. Thomson						
Monotonicity Theorems		•	•			. 20
On the Symmetric Derivative		•	•			. 23
V. Kelar On Strict Local Extrema of Differentiable Functions						. 24
R. Fleissner and J. Foran  A Note on the Garsia-Sawyer Class						. 24

## REAL ANALYSIS EXCHANGE

#### EDITORIAL BOARD

#### MANAGING EDITORS

Michael J. Evans Western Illinois University Macomb, Illinois 61455 Paul D. Humke St. Olaf College Northfield, Minnesota 55057

#### ASSOCIATE EDITORS

Richard Fleissner Western Illinois University Macomb, Illinois 61455

Richard J. O'Malley
University of Wisconsin Milwaukee
Milwaukee, Wisconsin 53201

James Foran University of Missouri -Kansas City Kansas City, Missouri 64108

Clifford E. Weil Michigan State University East Lansing, Michigan 48824

Library of Congress Catalog Card Number 77-647120

International Standard Serial Number 0147-1937

#### Notice to Contributors

- 1. Any author interested in writing a Topical Survey article should contact one of the Managing Editors for information concerning format and length.
- 2. Research articles as well as Inroads should be typed in camera-ready form. They should have one inch margins on the top and bottom and one and one-half inch margins on both sides for binding purposes. Contributors should take note of the heading for Inroads and Research articles. The deadline for acceptance of these articles is November 1 for the Winter edition of the Exchange. The deadline for the Spring Exchange is April 1.
- 3. Queries should be typed and any appropriate bibliographical or historical information should be included. Solutions to previous Queries should have the same margins as the Inroads articles and should also be in camera-ready form. Lengthy Query solutions will be published within the Inroads section of the Exchange. The deadline for Queries to be published in the Winter Exchange is November 15 and the deadline for the Spring Exchange is April 1.

All correspondence with the <u>Exchange</u> should be sent to the following address.

Real Analysis Exchange Morgan Hall 476 Western Illinois University Macomb, Illinois 61455

Subscription Information (Effective with Vol. 4)

Annual (Academic Year) Subscription (two issues):

 $\frac{\text{Individuals}}{\$3.00} \qquad \frac{\text{Libraries}}{\$5.00}$