

# **Real Analysis Exchange**

**Volume 3  
1977/78**

**Reprinted with the permission of the original publisher  
by  
Periodicals Service Company  
Hudson, NY  
2017**

**Printed on acid-free paper.**

**This reprint was reproduced from the  
best original edition copy available.**

**NOTE TO THE REPRINT EDITION:  
In some cases full page advertisements which do not add to  
the scholarly value of this volume have been omitted.  
As a result, some reprinted volumes may have irregular pagination.**

VOLUME 3 NO. 1 - 1977-78

# REAL ANALYSIS EXCHANGE

## CONTENTS

EDITORIAL MESSAGES . . . . .	3
CONFERENCE ANNOUNCEMENT . . . . .	5
TOPICAL SURVEY	
C. Goffman	
Lebesgue Equivalence . . . . .	7
INROADS	
A. K. Layek and S. N. Mukhopadhyay	
On Cluster Sets and Essential Cluster Sets . . . . .	25
J. Foran	
Differentiation and Lusin's Condition (N) . . . . .	34
C. E. Weil	
The Space of Bounded Derivatives . . . . .	38
C.-M. Lee	
Generalizations of L'Hospital's Rule . . . . .	42
C. L. Belna, M. J. Evans, and P. D. Humke	
Symmetric and Ordinary Differentiation . . . . .	45
R. J. Fleissner and R. J. O'Malley	
Summability of Approximate Derivatives . . . . .	49
QUERIES . . . . .	52

Library of Congress Catalog Card Number

77-647120

International Standard Serial Number

0147-1937

REAL ANALYSIS  
EXCHANGE

EDITORIAL BOARD

---

*MANAGING EDITORS*

Michael J. Evans  
Western Illinois University  
Macomb, Illinois 61455

Paul D. Humke  
Western Illinois University  
Macomb, Illinois 61455

*ASSOCIATE EDITORS*

Richard Fleissner  
Western Illinois University  
Macomb, Illinois 61455

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

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

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





