

CONTENTS

Differential equations involving circulant matrices
 By ALAN C. WILDE 1

Oscillation properties of forced third-order differential equations
 By W.E. TAYLOR, JR. 15

A ban-bang result for an undamped second-order evolution
 equation of Sobolev type
 By L.W. WHITE 23

Convergence in fuzzy topology
 By RICHARD H. WARREN 31

It's essentially Maschke's theorem
 By D.S. PASSMAN 37

Diophantine chains
 By JAMES C. OWINGS, JR. 55

Lower bounds for the hyperbolic metric in convex regions
 By C. DAVID MINDA 61

Localization with respect to a class of spaces
 By GERALD A. ANDERSON 71

Information regularity and the central limit question
 By RICHARD C. BRADLEY, JR. 77

Self-reproducing kernels and bilinear formulas for
 q-orthogonal polynomial
 By A. VERMA AND V.K. JAIN 99

Arens regularity of conjugate Banach algebras dense socle
 By B.J. TOMIUK 117

Differential-boundary operators and associated neutral
 functional differential questions
 By JOHN A. BURNS, TERRY L. HERDMAN
 AND HARLAN W. STECH 125

Rearrangements of divergent series
 By ELGIN H. JOHNSTON 143

Piecewise linear approximate fibrations
 By R.A. GOAD 155

Sums of three and four integer squares
 By GARY R. GREENFIELD 169

Reaction-diffusion equations for competing species singularly
 perturbed by a small diffusion rate
 By ANTHONY LEUNG 177