CONTENTS

S. N. Mishra

ACADEMIC JOURNEY OF PROFESSOR BILLY E. RHoades i-xxix

Abstract: Billy E. Rhoades is currently Professor Emeritus at Indiana University, Bloomington. He obtained his doctoral degree on Hausdorff Summability Methods from Lehigh University in 1958. He was Albert Tommy Wilansky’s first student, and the 5th Ph.D. awardee in mathematics from Lehigh. He has made numerous contributions to Summability Theory, Fixed Point Theory and mathematics in general. He has published almost four hundred papers. He has a strong passion for teaching, has served on different reform committees and has received many distinguished awards. In addition, he has served the mathematical community with a great sense of dedication and has a very large following throughout the world.

S. S. Dragomir

SOME INEQUALITIES OF JENSEN TYPE FOR CONVEX FUNCTIONS OF COMMUTING SELFADJOINT OPERATORS IN HILBERT SPACES 1-24
Abstract: Some operator inequalities for convex functions of commuting selfadjoint operators in Hilbert spaces which are related to the Jensen inequality are given. Natural examples for some fundamental convex functions are presented as well.

Manal Gabour, Simeon Reich and Alexander J. Zaslavski

A GENERIC FIXED POINT THEOREM

Abstract: We establish a generic fixed point theorem for generalized nonexpansive mappings in Banach spaces.

Prem Chandra

ABSOLUTE GENERALIZED HARMONIC SUMMABILITY OF A FACTORED FOURIER SERIES

Abstract: Extending some of the results of Das and Mohapatra [9] on the absolute generalized harmonic summability factors for the Fourier series, we have not only improved the results due to Varshney [18], [19] and Lal [13] but also provided new results. Conjugate analogue of this theorem has also been established in this paper.

S. L. Singh, Renu Chugh and Raj Kamal

SUZUKI TYPE HYBRID CONTRACTIONS AND APPLICATIONS

Abstract: In this paper, we obtain coincidence and common fixed point theorems for single-valued and multivalued maps in a metric space. Some applications, including the existence of common solutions of certain functional equations arising in dynamic programming are discussed.
Ismat Beg and Mujahid Abbas

**Common fixed points of multivalued mappings satisfying generalized \( \varphi \)-contractive condition in ordered \( G \)-metric spaces**

77-95

**Abstract:** In this paper, existence of common fixed points of two multivalued mappings satisfying generalized \( \varphi \)-contractive condition in the setting of ordered \( G \)-metric spaces, is established. An example to support our results is also presented.

Valeriu Popa and Alina-Mihaela Patriciu

**Fixed point theorems of generalized Greguš type in quasi-metric spaces**

97-112

**Abstract:** In this paper some fixed point theorems of generalized Greguš type in quasi-metric space are proved, which extend Theorems 1.2 [30] for functions satisfying a new type of implicit relations using a weakly form of altering distance and we obtain new similar results for strict expansive mappings. As applications, we obtain new results for mappings satisfying contractive/expansive conditions of integral type and in \( G \)-metric spaces.

Bapurao C. Dhage and Sotiris K. Ntouyas

**A Krasnoselskii nonlinear alternative type fixed point theorem with applications to nonlinear integral equations**

113-124

**Abstract:** In this paper a new variant of Leray-Schauder Nonlinear Alternative of Krasnoselskii type fixed point theorem is proved and some applications are given to a mixed nonlinear functional integral equation for proving the existence results under mixed Lipschitz and
compactness type conditions.

Mujahid Abbas and S. N. Mishra

Coincidence and fixed point results for two hybrid pairs of mappings

Abstract: Fixed point theorems for two hybrid pairs of single valued and multivalued noncompatible mappings under generalized contractive conditions are proved, without appeal to, continuity of any of the mappings involved therein and completeness of the underlying space. These results extend, unify and improve the earlier comparable results of a number of authors.