Indian Journal of Mathematics

Volume 34, No. 3, 1992

CONTENTS

U. C. DE and N. Guha

CONHARMONICALLY RECURRENT SASAKIAN MANIFOLDS

209-215

Abstract: The object of this paper is to study a Sasakian manifold which is conharmonically recurrent.

G. Das and Minatee Mohapatra

Degree of approximation of functions by the (Z,γ,δ) transform of its fourier series 217-223

I. J. Maddox

Almost periodic double sequences

225-231

Abstract: Almost periodic double sequences with values in a Banach space are considered, together with related concepts.

Pramila Srivastava and Mona Khare

ON LATTICES OF FUZZY BASIC PROXIMITIES

233 - 245

Abstract: The present paper deals with the lattice structure of the family M(X) of fuzzy basic proximities on X partially ordered by set inclusion. The notion of pointwise compatibility between fuzzy basic proximities has been introduced and some complete distibutive sublattices of M(X) have been investigated.

V. Popa and T. Noiri

On upper and lower $\underline{\theta}$ -irresolute multifunctions

247-257

B. E. Rhoades

The point spectrum for double hausdorff matrices on various spaces \$259-263\$

Abstract: In a recent paper Okutoyi and Thorpe [2] determined the spectrum of the double Cesaro matrix of order 1, on the space $c_0(c_0,)$, where c_0 is the space of null sequence. In this paper we determine the point spectrum of a wide class of double Hausdorff matrices, considered as operators over X(X), where X is any one of the spaces $c_0, l^p, 1 \le p < \infty$, or c, the space of convergent sequences.

H. C. Lai and J. C. Lee

INTEGRATION THEORY FOR BANACH-VALUED MULTIFUNCTIONS*

265-284

Abstract: This paper establishes some fundamental theorems for integration theory of Banach-valued multifunctions. It is proved that the Fatou's type theorem and dominated convergence theorem hold for Hausdorff and Kuratowski limits. The double and iterated integrations for two-variable multifunction are discussed so that the Fubini type theorem is established in the case of multifunctions.

S. K. Bhattacharya, A. K. Saxena and A. Chaturvedi

A MODIFIED BESSEL INTEGRAL WITH A STATISTICAL APPLICATION

285-294

Abstract: An integral involving a modified Bessel function $K_v(.)$ is evaluated and its application in the Bayesian regression analysis is illustrated via the multivariate modified Bessel distribution.

A. Kar and P. Bhattacharyya

BITOPOLOGICAL PREOPEN SETS, PRECONTINUITY AND PREOPEN MAPPINGS

295-309

Abstract: The concepts of preopen sets, precontinuity and preopen mappings in a bitopological space are introduced in this paper. The conditions under which the various properties enjoyed by the above concepts in a single topological space can be generalized into a bitopological space are investigated.
