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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 \(c_0, l^p, 1 \leq p < \infty, \) or \(c\), the space of convergent sequences.
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Integration theory for Banach-valued multifunctions

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

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

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.

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