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Applications of measures of noncompactness in matrix transformations

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Abstract

In this work, we define a new difference sequence space $lp(\Delta)$ and determine the β -dual of the sets $lp(\Delta)$. We also characterize some matrix transformations and apply the Hausdorff measure of noncompactness to give necessary and sufficient conditions for the entries of an infinite matrix to be a compact operator between the spaces $lp(\Delta)$ for $1 < p < \infty$ and some classical sequence spaces.

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