

Spectra and fine spectra of certain lower triangular double-band matrices as operators on c_0

Authors S.R. El-Shabrawy

Abstract

In this paper we determine the fine spectrum of the generalized difference operator defined by a lower triangular double-band matrix over the sequence space. The class of the operator contains as special cases many operators that have been studied recently in the literature. Illustrative examples showing the advantage of the present results are also given.

Keywords: *spectrum of an operator; infinite lower triangular matrices; sequence spaces*