



Year: 2005

Vol.: 67

Fasc.: 3-4

Title: On the spectrum of the difference equations of second order

Author(s): Ali Akbulut , Murat Adivar and Elgiz Bairamov

In this paper we investigate the discrete spectrum of the boundary value problem

$$a_{n-1}y_{n-1} + b_n y_n + a_n y_{n+1} + f_n = \lambda y_n, \quad n \in \mathbb{N} = \{1, 2, \dots\}, \quad y_0 = 0$$

where $\{a_n\}_{n=1}^{\infty}$, $\{b_n\}_{n=1}^{\infty}$ and $\{f_n\}_{n=1}^{\infty}$ are complex sequences.

Address:

Ali Akbulut
Department of Mathematics
Faculty of Arts And Science
Gazi University
40100, Kirsehir
Turkey
E-mail: akbulut@science.ankara.edu.tr

Address:

Murat Adivar
Department of Mathematics
Adnan Menderes University
09100, Aydin
Turkey
E-mail: Murat.Adivar@science.ankara.edu.tr

Address:

Elgiz Bairamov
Department of Mathematics
Faculty of Science
Ankara University
06100, Tandoğan, Ankara
Turkey
E-mail: bairamov@science.ankara.edu.tr