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The continuous spectrum problems of second-order difference operators and its applications.  
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MSC:

65L15 Numerical solution of eigenvalue problems involving ordinary differential equations  
34L15 Eigenvalues, estimation of eigenvalues, upper and lower bounds of ordinary differential operators  
34L25 Scattering theory, inverse scattering involving ordinary differential operators

Keywords:

Sturm-Liouville problem; continuous spectrum problems; second-order difference operators; discrete inverse scattering problems