1. | Record Nr. | UNINA9910788756103321 |
|---|---|
| Autore | Jirari Alouf <1965-> |
| Titolo | Second-order Sturm-Liouville difference equations and orthogonal polynomials / / Alouf Jirari |
| Pubbl/distr/stampa | Providence, Rhode Island : , : American Mathematical Society, , 1995 ©1995 |
| ISBN | 1-4704-0121-5 |
| Descrizione fisica | 1 online resource (154 p.) |
| Collana | Memoirs of the American Mathematical Society, , 0065-9266 ; ; Number 542 |
| Disciplina | 515/.625 |
| Soggetti | Sturm-Liouville equation Difference equations Orthogonal polynomials |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "January 1995, Volume 113, Number 542 (second of 4 numbers)." |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | ""Table of Contents""; ""List of Figures""; ""Acknowledgements""; ""Chapter 1. Introduction""; ""1.1 The Vibrating String""; ""1.2 Network Theory""; ""1.3 Random Walk With Discrete Time Process""; ""Chapter 2. Regular Sturm-Liouville Problem""; ""2.1 Set Up""; ""2.2 Preliminary Results""; ""2.3 Orthogonality, Eigenfunction Expansion, Spectral Function, and Green's Function""; ""Chapter 3. Singular Sturm-Liouville Problem""; ""3.1 Definition""; ""3.2 C[sub(b')] Circles""; ""3.3 C[sub(a')] Circles""; ""3.4 Existence of Boundary Conditions""; ""3.5 Singular Boundary Value Problems"" |
| | ""3.6 Green's Function""""3.7 Self-Adjointness""; ""3.8 I»-Independence of Boundary Conditions""; ""3.9 Green's Formulas""; ""3.10 Spectral Resolution""; ""3.11 Limit-Point and Limit-Circle Tests""; ""Chapter 4. Polynomial Solutions""; ""4.1 Formal Self-Adjointness""; ""4.2 Polynomial Solutions""; ""4.3 Orthogonality of Eigenfunctions""; ""4.4 Eigenfunction Expansion""; ""Chapter 5. Polynomial Examples""; ""5.1 Classification""; ""5.2 Recurrence Relations""; ""5.3 Weight Functions and Self-Adjoint Forms""; ""5.4 Orthogonality""; ""5.5 Evaluation of the ||.||[sup(2)]""; ""5.6 Zeros"" |
| | ""Chapter 6. The Four Representative Examples""""6.1 The Generalized Tchebyshev Polynomials""; ""6.2 The Generalized Laguerre |