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Variants of a Selection Principle for Sequences of Regulated and Non-Regulated Functions V. V. Chistyakov, C. Maniscalco, Y. V. Tretyachenko
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2. Uniform and Lp-Convergence3. Convergence Almost Everywhere: One-Dimensional Series; 4. Convergence Almost Everywhere: Multiple Series; 5. Concluding Remarks; Acknowledgments; References; Using Integrals of Squares of Certain Real-Valued Special Functionsto Prove that the P olya (z) Function, the Functions Kiz(a), a > 0,and Some Other Entire Functions Having Only Real ZerosG. Gasper; 1. Introduction; 2. Reality of the Zeros of the Functions Kiz(a) When a > 0; 3. Reality of the Zeros of the Functions (z) and Fa,c(z); Acknowledgment; References
Functions Whose Moments Form a Geometric Progression M. E. H. Ismail, X. Li1. Introduction; 2. Proofs; References; Characterization of Scaling Functions in a Frame MultiresolutionAnalysis in H2GK. S. Kazarian, A. San Antol n; 1. Introduction; 2. Spaces H2G; 2.1. A-invariant sets; 3. Characterization of Scaling Functions of an FMRA in H2G; 3.1. Definitions and Preliminary results; 3.2. Characterization of scaling functions of an H2G -FMRA and other cases; 4. On the Existence of H2G -MRA and H2G -FMRA; References; An Abstract Coifman-Rochberg-Weiss Commutator Theorem J. Martin, M. Milman
1. Introduction

Sommario/riassunto

This book covers a wide range of topics, from orthogonal polynomials to wavelets. It contains several high-quality research papers by prominent experts exploring trends in function theory, orthogonal polynomials, Fourier series, approximation theory, theory of wavelets and applications. The book provides an up-to-date presentation of several important topics in Classical and Modern Analysis. The interested reader will also be able to find stimulating open problems and suggestions for future research.