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Altri autori (Persone)	De CarliLaura <1962-> KazarianKazaros MilmanMario WatermanDaniel
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Nota di contenuto	Preface; CONTENTS; My Academic Life D. Waterman; REMINISCENCES; RESEARCH; High Indices; Reflexivity and Summability; Harmonic Analysis; Change of Variable; Fourier Series and Generalized Variation; Representation of Functions, Orthogonal Series; Real Analysis; Summability; Survey Papers; PUBLICATIONS; Papers; Books; DOCTORAL STUDENTS; Reminiscences edited by L. Lardy, J. Troutman (with contributions by L. D'Antonio, G. T. Cargo, Ph. T. Church, D. Dezern, G. Gasper, P. Pierce, E. Poletsky, M. Schramm, F. Prus-Wisniowski, P. Schembari); On Concentrating Idempotents, A Survey J. Marshall Ash 1. From Operators on L2 (Z) to Concentration 1.1. Definitions; 1.2. Relating classes of operators; 1.3. A surprising connection; 1.4. Results for L2 Concentration; 1.5. Quantitative results for L2 concentration; 2. A Paper 20 Years in the Making; 2.1. The early years; 2.2. On the virtues of procrastination; 3. The Future; 3.1. A segue; 3.2. The L1 concentration question; 3.3. A conjecture about operators; References; Variants of a Selection Principle for Sequences of Regulated and Non-

Regulated Functions V. V. Chistyakov, C. Maniscalco, Y. V. Tretyachenko

1. Regulated Functions and Selection Principles 2. Main Results; 3. Properties of  $N(f, T)$  for Metric Space Valued Functions; 4. Functions with Values in a Metric Space: Proofs; 5. Functions with Values in a Metric Semigroup; 6. Functions with Values in a Reflexive Separable Banach Space; Acknowledgments; References; Local  $L_p$  Inequalities for Gegenbauer Polynomials L. De Carli; 1. Introduction; 2. Preliminaries; 2.1. Four useful Lemmas; 3. Most of the Proofs; References; General Monotone Sequences and Convergence of Trigonometric Series M. Dyachenko, S. Tikhonov; 1. Introduction 2. Uniform and  $L_p$ -Convergence 3. 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 Functions to Prove that the Pólya ( $z$ ) Function, the Functions  $Kiz(a)$ ,  $a > 0$ , and Some Other Entire Functions Having Only Real Zeros G. 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  $F_{a,c}(z)$ ; Acknowledgment; References Functions Whose Moments Form a Geometric Progression M. E. H. Ismail, X. Li 1. Introduction; 2. Proofs; References; Characterization of Scaling Functions in a Frame Multiresolution Analysis in  $H_2G$  S. Kazarian, A. San Antol n; 1. Introduction; 2. Spaces  $H_2G$ ; 2.1.  $A$ -invariant sets; 3. Characterization of Scaling Functions of an FMRA in  $H_2G$ ; 3.1. Definitions and Preliminary results; 3.2. Characterization of scaling functions of an  $H_2G$ -FMRA and other cases; 4. On the Existence of  $H_2G$ -MRA and  $H_2G$ -FMRA; References; An Abstract Coifman-Rochberg-Weiss Commutator Theorem J. Martin, M. Milman 1. Introduction

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### 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.

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