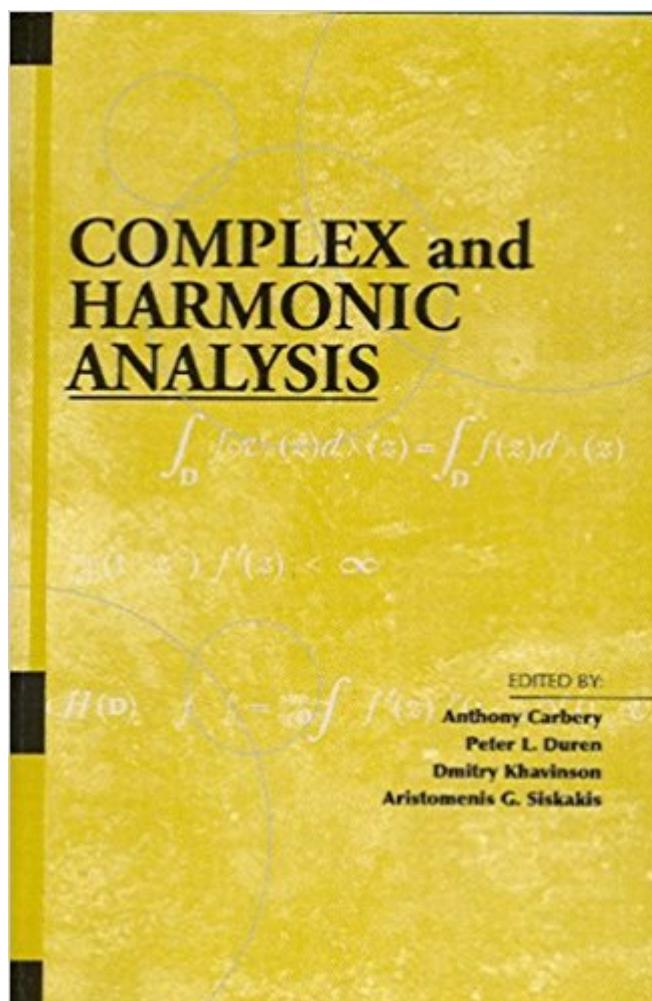


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Complex Harmonic Analysis



Synopsis

This book contains 23 original and fully refereed chapters, developed from presentations at a conference at the Aristotle University of Thessaloniki, Greece, held in May 2006. The book represents a valuable overview of current research in the mathematical area of complex and harmonic analysis. Among the subjects investigated in this book are: Geometric Function Theory and Complex Iteration; Function Spaces and Composition Operators; Extremal Problems; Potential Theory; Maximal Functions, Analysis on Manifolds TABLE OF CONTENTS: Preface The Mathematical Work of Nikos Danikas W. K. HAYMAN Danikas Measures V. NESTORIDIS More Results on Functional Avoidance P. LAPPAN Schwarzian Derivatives of Analytic and Harmonic Functions M. CHUAQUI, P. DUREN and B. OSGOOD The Farthest Point Distance Function S. J. GARDINER and I. NETUKA A Survey of Certain Extremal Problems for Non-Vanishing Analytic Functions C. BĂNĂTEAU and D. KHAVINSON Iteration in the Unit Disk: The Parabolic Zoo M. D. CONTRERAS, S. DĂBĂZ-MADRIGAL and C. POMMERENKE Rigidity Results for Holomorphic Mappings on the Unit Disk M. ELIN, M. LEVENSHTEIN, S. REICH and D. SHOIKHET Geometry of Polynomials and Majorization Theory E. S. KATSOPRINAKIS Weighted Hardy Spaces for the Unit Disc: Approximation Properties A. BOIVIN, P. M. GAUTHIER and C. ZHU Composition Operators on the Minimal Space Invariant Under Möbius Transformations O. BLASCO The Characterization of the Carleson Measures for Analytic Besov Spaces: A Simple Proof N. ARCOZZI, R. ROCHBERG and E. SAWYER Analytic Besov-Type Spaces and Oscillation N. ZORBOSKA S-Toeplitz Composition Operators V. MATACHE Riemann-Stieltjes Operators Between Weighted Bergman Spaces J. XIAO Approximation by Translates of Entire Functions G. COSTAKIS Universal Taylor Series on a Non-Simply Connected Domain and Hadamard-Ostrowski Gaps V. VLACHOU Boundary Extension of m -Homeomorphisms M. A. BRAKALOVA Covering the Plane by Rotations of a Lattice Arrangement of Disks A. IOSEVICH, M. N. KOLOUNTZAKIS and M. MATOLCSI On Certain Hardy-Littlewood Type Maximal Operators P. AVRAMIDOU On the Restriction of the Fourier Transform to Polynomial Curves S. DENDRINOS Spectral Multipliers on Kleinian Groups N. MANDOUVALOS and M. MARIAS Bounds of the Heat Kernel Derivatives on Hyperbolic Spaces N. MANDOUVALOS and T. E. TSELEPIDIS Author Index

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