

# BANACH SPACES OF ANALYTIC FUNCTIONS

Kenneth Hoffman

# Banach Spaces Of Analytic Functions Dover Books On Mathematics

**Aleksander Pełczyński**



## **Banach Spaces Of Analytic Functions Dover Books On Mathematics:**

*Banach Spaces of Analytic Functions* Kenneth Hoffman, 2007-02-27 A classic of pure mathematics this advanced graduate level text explores the intersection of functional analysis and analytic function theory Close in spirit to abstract harmonic analysis it is confined to Banach spaces of analytic functions in the unit disc The author devotes the first four chapters to proofs of classical theorems on boundary values and boundary integral representations of analytic functions in the unit disc including generalizations to Dirichlet algebras The fifth chapter contains the factorization theory of  $H^p$  functions a discussion of some partial extensions of the factorization and a brief description of the classical approach to the theorems of the first five chapters The remainder of the book addresses the structure of various Banach spaces and Banach algebras of analytic functions in the unit disc Enhanced with 100 challenging exercises a bibliography and an index this text belongs in the libraries of students professional mathematicians as well as anyone interested in a rigorous high level treatment of this topic

**Banach Spaces of Analytic Functions (Dover Books on Mathematics)** Bailey E. Morley, 2015-08-30 This updated and expanded second edition of the *Banach Spaces of Analytic Functions* Dover Books on Mathematics provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business Feel free to send us your inquiries related to our publications to [info@pwpublishers.com](mailto:info@pwpublishers.com)

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[Banach Spaces of Analytic Functions and Absolutely Summing Operators](#) Aleksander Pełczyński, 1977-12-31 This book surveys results concerning bases and various approximation properties in the classical spaces of analytical functions It contains extensive bibliographical comments

[Banach Spaces of Analytic Functions](#). J. Baker, C. Cleaver, J. Diestel, 2006-11-15 With contributions by numerous experts

**Banach Spaces of Analytic Functions** Thomas H. MacGregor, 2008 This volume is focused on Banach spaces of

functions analytic in the open unit disc such as the classical Hardy and Bergman spaces and weighted versions of these spaces Other spaces under consideration here include the Bloch space the families of Cauchy transforms and fractional Cauchy transforms BMO VMO and the Fock space Some of the work deals with questions about functions in several complex variables

Lectures on Analytic Function Spaces and their Applications Javad Mashreghi, 2023-10-13 The focus program on Analytic Function Spaces and their Applications took place at Fields Institute from July 1st to December 31st 2021 Hilbert spaces of analytic functions form one of the pillars of complex analysis These spaces have a rich structure and for more than a century have been studied by many prominent mathematicians They have essential applications in other fields of mathematics and engineering The most important Hilbert space of analytic functions is the Hardy class  $H^2$  However its close cousins the Bergman space  $A^2$  the Dirichlet space  $D$  the model subspaces  $K_t$  and the de Branges-Rovnyak spaces  $H(b)$  have also garnered attention in recent decades Leading experts on function spaces gathered and discussed new achievements and future venues of research on analytic function spaces their operators and their applications in other domains With over 250 hours of lectures by prominent mathematicians the program spanned a wide variety of topics More explicitly there were courses and workshops on Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges-Rovnyak Spaces Blaschke Products and Inner Functions and Convergence of Scattering Data and Non linear Fourier Transform among others At the end of each week there was a high profile colloquium talk on the current topic The program also contained two advanced courses on Schramm-Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions This volume features the courses given on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Operators on Function Spaces Truncated Toeplitz Operators Semigroups of weighted composition operators on spaces of holomorphic functions the Corona Problem Non commutative Function Theory and Drury-Arveson Space This volume is a valuable resource for researchers interested in analytic function spaces

**The Cauchy Transform** Joseph A. Cima, Alec L. Matheson, William T. Ross, 2006 The Cauchy transform of a measure on the circle is a subject of both classical and current interest with a sizable literature This book is a thorough well documented and readable survey of this literature and includes full proofs of the main results of the subject This book also covers more recent perturbation theory as covered by Clark-Poltoratski and Aleksandrov and contains an in depth treatment of Clark measures

Function Theory and  $\ell_p$  Spaces Raymond Cheng, Javad Mashreghi, William T. Ross, 2020-05-28 The classical  $p$  sequence spaces have been a mainstay in Banach spaces This book reviews some of the foundational results in this area the basic inequalities duality convexity geometry as well as connects them to the function theory boundary growth conditions zero sets extremal functions multipliers operator theory of the associated spaces  $pA$  of analytic functions whose Taylor coefficients belong to  $p$  Relations between the Banach space  $p$  and its associated function space are uncovered using tools from Banach space geometry including Birkhoff-James orthogonality and the resulting Pythagorean inequalities The authors survey the literature on all of

this material including a discussion of the multipliers of  $pA$  and a discussion of the Wiener algebra 1A Except for some basic measure theory functional analysis and complex analysis which the reader is expected to know the material in this book is self contained and detailed proofs of nearly all the results are given Each chapter concludes with some end notes that give proper references historical background and avenues for further exploration Automata, Languages, and Programming Magnús M. Halldórsson, Kazuo Iwama, Naoki Kobayashi, Bettina Speckmann, 2015-06-19 The two volume set LNCS 9134 and LNCS 9135 constitutes the refereed proceedings of the 42nd International Colloquium on Automata Languages and Programming ICALP 2015 held in Kyoto Japan in July 2015 The 143 revised full papers presented were carefully reviewed and selected from 507 submissions The papers are organized in the following three tracks algorithms complexity and games logic semantics automata and theory of programming and foundations of networked computation models algorithms and information management

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