

this book is an introductory text in functional analysis unlike many modern treatments it begins with the particular and works its way to the more general from the reviews this book is an excellent text for a first graduate course in functional analysis many interesting and important applications are included it includes an abundance of exercises and is written in the engaging and lucid style which we have come to expect from the author mathematical reviews

covers subjects central to operator theory with chapters on C^* algebras normal operators compact operators ideals of operators non normal operators compact perturbations von Neumann algebras and reflexivity includes examples and applications assumes knowledge of fundamental functional analysis can be used as a sequel to a basic functional analysis course or as a foundation for the study of operator theory annotation copyrighted by book news inc portland or

this book presents a basic introduction to complex analysis in both an interesting and a rigorous manner it contains enough material for a full year's course and the choice of material treated is reasonably standard and should be satisfactory for most first courses in complex analysis the approach to each topic appears to be carefully thought out both as to mathematical treatment and pedagogical presentation and the end result is a very satisfactory book mathscinet

this book is intended as a textbook for a first course in the theory of functions of one complex variable for students who are mathematically mature enough to understand and execute 8 arguments the actual pre requisites for reading this book are quite minimal not much more than a stiff course in basic calculus and a few facts about partial derivatives the topics from advanced calculus that are used e.g. Leibniz's rule for differentiating under the integral sign are proved in detail complex variables is a subject which has something for all mathematicians in addition to having applications to other parts of analysis it can rightly claim to be an ancestor of many areas of mathematics e.g. homotopy theory manifolds this view of complex analysis as an introduction to mathematics has influenced the writing

and selection of subject matter for this book the other guiding principle followed is that all definitions theorems etc

this is the sequel to my book functions of one complex variable i and probably a good opportunity to express my appreciation to the mathematical community for its reception of that work in retrospect writing that book was a crazy venture as a graduate student i had had one of the worst learning experiences of my career when i took complex analysis a truly bad teacher as a non tenured assistant professor the department allowed me to teach the graduate course in complex analysis they thought i knew the material i wanted to learn it i adopted a standard text and shortly after beginning to prepare my lectures i became dissatisfied all the books in print had virtues but i was educated as a modern analyst not a classical one and they failed to satisfy me this set a pattern for me in learning new mathematics after i had become a mathematician some topics i found satisfactorily treated in some sources some i read in many books and then recast in my own style there is also the matter of philosophy and point of view going from a certain mathematical vantage point to another is thought by many as being independent of the path certainly true if your only objective is getting there but getting there is often half the fun and often there is twice the value in the journey if the path is properly chosen

this work is a concise introduction to spectral theory of hilbert space operators its emphasis is on recent aspects of theory and detailed proofs with the primary goal of offering a modern introductory textbook for a first graduate course in the subject the coverage of topics is thorough as the book explores various delicate points and hidden features often left untreated spectral theory of operators on hilbert spaces is addressed to an interdisciplinary audience of graduate students in mathematics statistics economics engineering and physics it will also be useful to working mathematicians using spectral theory of hilbert space operators as well as for scientists wishing to apply spectral theory to their field

the book first rigorously develops the theory of reproducing kernel hilbert spaces the

authors then discuss the pick problem of finding the function of smallest H^∞ norm that has specified values at a finite number of points in the disk their viewpoint is to consider H^∞ as the multiplier algebra of the hardy space and to use hilbert space techniques to solve the problem this approach generalizes to a wide collection of spaces the authors then consider the interpolation problem in the space of bounded analytic functions on the bidisk and give a complete description of the solution they then consider very general interpolation problems the book includes developments of all the theory that is needed including operator model theory the arveson extension theorem and the hereditary functional calculus

this textbook introduces spectral theory for bounded linear operators by focusing on i the spectral theory and functional calculus for normal operators acting on hilbert spaces ii the riesz dunford functional calculus for banach space operators and iii the fredholm theory in both banach and hilbert spaces detailed proofs of all theorems are included and presented with precision and clarity especially for the spectral theorems allowing students to thoroughly familiarize themselves with all the important concepts covering both basic and more advanced material the five chapters and two appendices of this volume provide a modern treatment on spectral theory topics range from spectral results on the banach algebra of bounded linear operators acting on banach spaces to functional calculus for hilbert and banach space operators including fredholm and multiplicity theories supplementary propositions and further notes are included as well ensuring a wide range of topics in spectral theory are covered spectral theory of bounded linear operators is ideal for graduate students in mathematics and will also appeal to a wider audience of statisticians engineers and physicists though it is mostly self contained a familiarity with functional analysis especially operator theory will be helpful

this book covers topics appropriate for a first year graduate course preparing students for the doctorate degree the first half of the book presents the core of measure theory including an introduction to the fourier transform this material can easily be covered in a

semester the second half of the book treats basic functional analysis and can also be covered in a semester after the basics it discusses linear transformations duality the elements of banach algebras and C^* algebras it concludes with a characterization of the unitary equivalence classes of normal operators on a hilbert space the book is self contained and only relies on a background in functions of a single variable and the elements of metric spaces following the author's belief that the best way to learn is to start with the particular and proceed to the more general it contains numerous examples and exercises

this book exposes the internal structure of non self adjoint operators acting on complex separable infinite dimensional hilbert space by analyzing and studying the commutant of operators a unique presentation of the theorem of cowen douglas operators is given the authors take the strongly irreducible operator as a basic model and find complete similarity invariants of cowen douglas operators by using K theory complex geometry and operator algebra tools

this text is the first of its kind exclusively devoted to counterexamples in operator theory and includes over 500 problems on bounded and unbounded linear operators in hilbert spaces this volume is geared towards graduate students studying operator theory and the author has designated the difficulty level for each counterexample indicating which ones are also suitable for advanced undergraduate students the first half of the book focuses on bounded linear operators including counterexamples in the areas of operator topologies matrices of bounded operators square roots the spectrum operator exponentials and non normal operators the second part of the book is devoted to unbounded linear operators in areas such as closedness and closability self adjointness normality commutativity and the spectrum concluding with a chapter that features some open problems chapters begin with a brief basics section for the readers reference and many of the counterexamples included are the author's original work counterexamples in operator theory can be used by students in graduate courses on operator theory and advanced matrix theory previous coursework in advanced linear algebra operator theory and functional analysis is assumed researchers

quantum physicists and undergraduate students studying functional analysis and operator theory will also find this book to be a useful reference

human mental capacities and processes are the raw materials with which psychotherapists work thus what cognitive scientists have discovered in recent decades is potentially tremendous value for psychotherapeutic practice but the new knowledge is not readily accessible to therapists who find both language and methodology off putting the mind in therapy bridges the gap it offers a comprehensive overview of the relevant range of cognitive activities ranging from complex mental operations such as problem solving decision making reasoning and metacognition to basic functions such as attention memory and emotion the authors integrate key new findings about the interaction between cognition and emotion inhibition and counterfactual thinking processes that loom large in practice each chapter reviews an area of cognitive research clearly explains the findings and highlights their implications and applications in diverse models of therapy cognitive behavioral psychodynamic humanistic and family each includes case vignettes that illustrate the ways in which the concepts are important and useful in practice all therapists rely on the human mind to effect the change they seek the clearer understanding of human cognitive capacities idiosyncrasies and limitations their own as well as clients that they will gain from this book will enhance the effectiveness of both beginning and experienced practitioners whatever their orientation

the subject of this book is operator theory on the hardy space h^2 also called the hardy hilbert space this is a popular area partially because the hardy hilbert space is the most natural setting for operator theory a reader who masters the material covered in this book will have acquired a firm foundation for the study of all spaces of analytic functions and of operators on them the goal is to provide an elementary and engaging introduction to this subject that will be readable by everyone who has understood introductory courses in complex analysis and in functional analysis the exposition blending techniques from soft and hard analysis is intended to be as clear and instructive as possible many of the proofs are very elegant this book evolved from a graduate course that was taught at the university of

toronto it should prove suitable as a textbook for beginning graduate students or even for well prepared advanced undergraduates as well as for independent study there are numerous exercises at the end of each chapter along with a brief guide for further study which includes references to applications to topics in engineering

first published in 1992 the proterozoic biosphere was the first major study of the paleobiology of the proterozoic earth

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Introduction

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