

Kevin Clancey

# Seminormal Operators

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# Seminormal Operators

**Constantin, Douglas, Nagy, Voiculescu**



## **Seminormal Operators:**

**Seminormal Operators** K. Clancey, 2006-11-15

**Lectures on Hyponormal Operators** Mihai Putinar, Mircea

Martin, 2012-12-06 The present lectures are based on a course delivered by the authors at the University of Bucharest in the winter semester 1985-1986. Without aiming at completeness, the topics selected cover all the major questions concerning hyponormal operators. Our main purpose is to provide the reader with a straightforward access to an active field of research which is strongly related to the spectral and perturbation theories of Hilbert space operators, singular integral equations and scattering theory. We have in view an audience composed especially of experts in operator theory or integral equations, mathematical physicists and graduate students. The book is intended as a reference for the basic results on hyponormal operators but has the structure of a textbook. Parts of it can also be used as a second year graduate course. As prerequisites, the reader is supposed to be acquainted with the basic principles of functional analysis and operator theory as covered, for instance, by Reed and Simon. At several stages of preparation of the manuscript, we were pleased to benefit from proper comments made by our colleagues: Grigore Arsene, Tiberiu Constantinescu, Raul Curto, Jan Janas, Bebe Prunaru, Florin Radulescu, Krzysztof Rudol, Konrad Schmudgen, Florian Horia Vasilescu. We warmly thank them all. We are indebted to Professor Israel Gohberg, the editor of this series, for his constant encouragement and his valuable mathematical advice. We wish to thank Mr Benno Zimmermann, the Mathematics Editor at Birkhäuser Verlag, for cooperation and assistance during the preparation of the manuscript.

## **Linear Operators and Approximation / Lineare Operatoren und Approximation**

Bautzer, Kahane, Nagy, 2012-12-06 These proceedings contain the lectures presented at the Conference on Linear Operators and Approximation held at the Oberwolfach Mathematical Research Institute, August 14-22, 1971. There were thirty-eight such lectures, while four additional papers subsequently submitted in writing are also included in this volume. Two of the three lectures presented by Russian mathematicians are rendered in English, the third in Russian. Furthermore, there is a report on new and unsolved problems based upon special problem sessions with later communications from the participants. In fact, two of the papers included are devoted to solutions of some of the problems posed. The papers have been classified according to subject matter into five chapters, but it needs little emphasis that such thematic groupings are necessarily somewhat arbitrary. Thus Chapter I on Operator Theory is concerned with linear and non-linear semi-groups, structure of single operators, unitary operators, spectral and ergodic theory. Chapter II on Topics in Functional Analysis includes papers on Riesz spaces, boundedness theorems, generalized limits and distributions. Chapter III, entitled Approximation in Abstract Spaces, ranges from characterizations of classes of functions in approximation theory to approximation-theoretical topics connected with extensions to Banach or more general spaces. Chapter IV contains papers on harmonic analysis in connection with approximation, and finally Chapter V is devoted to approximation by splines, algebraic polynomials, rational functions and to Padé approximation. A large part of the general editorial work connected with these proceedings was competently handled

by Miss F Feber while G Spectral Theory of Hyponormal Operators Xia, 2013-11-22 Spectral analysis of linear operators has always been one of the more active and important fields of operator theory and of extensive interest to many operator theorists Its developments usually are closely related to certain important problems in contemporary mathematics and physics In the last 20 years many new theories and interesting results have been discovered Now in this direction the fields are perhaps wider and deeper than ever This book is devoted to the study of hyponormal and semi hyponormal operators The main results we shall present are those of the author and his collaborators and colleagues as well as some concerning related topics To some extent hyponormal and semi hyponormal operators are close to normal ones Although those two classes of operators contain normal operators as a subclass what we are interested in are naturally nonnormal operators in those classes With the well studied normal operators in hand we certainly wish to know the properties of hyponormal and semi hyponormal operators which resemble those of normal operators But more important than that the investigations should be concentrated on the phenomena which only occur in the nonnormal cases

**Current Trends in Operator Theory and its Applications** Joseph A. Ball, J. William Helton, Martin Klaus, Leiba Rodman, 2012-12-06 Many developments on the cutting edge of research in operator theory and its applications are reflected in this collection of original and review articles Particular emphasis lies on highlighting the interplay between operator theory and applications from other areas such as multi dimensional systems and function theory of several complex variables distributed parameter systems and control theory mathematical physics wavelets and numerical analysis

*Operator Theory for Complex and Hypercomplex Analysis* Enrique Ramírez de Arellano, 1998 This book presents a collection of papers on certain aspects of general operator theory related to classes of important operators singular integral Toeplitz and Bergman operators convolution operators on Lie groups pseudodifferential operators etc The study of these operators arises from integral representations for different classes of functions enriches pure operator theory and is influential and beneficial for important areas of analysis Particular attention is paid to the fruitful interplay of recent developments of complex and hypercomplex analysis on one side and to operator theory on the other The majority of papers illustrate this interplay as well as related applications The papers represent the proceedings of the conference Operator Theory and Complex and Hypercomplex Analysis held in December 1994 in Mexico City

**Operators, Functions, and Systems - An Easy Reading** Nikolai K. Nikolski, 2010-10-06 Together with the companion volume by the same author Operators Functions and Systems An Easy Reading Volume 1 Hardy Hankel and Toeplitz Mathematical Surveys and Monographs Vol 92 AMS 2002 this unique work combines four major topics of modern analysis and its applications A Hardy classes of holomorphic functions B Spectral theory of Hankel and Toeplitz operators C Function models for linear operators and free interpolations and D Infinite dimensional system theory and signal processing This volume contains Parts C and D Function models for linear operators and free interpolations This is a universal topic and indeed is the most influential operator theory technique in the post spectral theorem era In this book its capacity is tested by

solving generalized Carleson type interpolation problems Infinite dimensional system theory and signal processing This topic is the touchstone of the three previously developed techniques The presence of this applied topic in a pure mathematics environment reflects important changes in the mathematical landscape of the last 20 years in that the role of the main consumer and customer of harmonic complex and operator analysis has more and more passed from differential equations scattering theory and probability to control theory and signal processing This and the companion volume are geared toward a wide audience of readers from graduate students to professional mathematicians They develop an elementary approach to the subject while retaining an expert level that can be applied in advanced analysis and selected applications

*Operator Theory and Complex Analysis* J. K. Aggarwal, 1993-01-22 This volume presents a set of papers based on the proceedings of the NATO Advanced Research Workshop on Multisensor Fusion for Computer Vision held in Grenoble France in June 1989 The workshop focused on the fusion or integration of sensor information to achieve the optimum interpretation of a scene The papers cover a broad range of topics including principles and issues in multisensor fusion information fusion for navigation multisensor fusion for object recognition network approaches to multisensor fusion computer architectures for multisensor fusion and applications of multisensor fusion The authors have documented their own research and in so doing have presented the state of the art in the field Each author is a recognized leader in his or her area in the academic governmental or industrial research community Several contributors present novel points of view on the integration of information The book gives a representative picture of current progress in multisensor fusion for computer vision among the leading research groups in Europe and North America

**Principal Currents for a Pair of Unitary Operators** Joel D. Pincus, Shaojie Zhou, 1994 The study of interrelationships between rectifiable currents associated to  $n$  tuples of operators with commutators or multicommutators satisfying trace class conditions is the exploration of a non commutative spectral theory in which there is still a significant degree of localization at points in the current support viewed as a non commutative spectrum This memoir is a systematic development of the theory of principal functions in this the noncommutative case and it generalizes extensive previous work of R Carey and Pincus

*Spectral Theory of Operators on Hilbert Spaces* Carlos S. Kubrusly, 2012-06-01 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

**Operator Theory and Complex Analysis** T. Ando, I. Gohberg, 2012-12-06

**The Theory of Subnormal Operators** John B. Conway, 1991 In a certain sense subnormal operators were introduced too soon because the theory of

function algebras and rational approximation was also in its infancy and could not be properly used to examine the class of operators. The progress in the last several years grew out of applying the results of rational approximation from the Preface. This book is the successor to the author's 1981 book on the same subject. In addition to reflecting the great strides in the development of subnormal operator theory since the first book, the present work is oriented towards rational functions rather than polynomials. Although the book is a research monograph, it has many of the traits of a textbook, including exercises. The book requires background in function theory and functional analysis but is otherwise fairly self-contained. The first few chapters cover the basics about subnormal operator theory and present a study of analytic functions on the unit disk. Other topics included are some results on hyponormal operators, an exposition of rational approximation interspersed with applications to operator theory, a study of weak star rational approximation, a set of results that can be termed structure theorems for subnormal operators, and a proof that analytic bounded point evaluations exist.

**Counterexamples in Operator Theory** Mohammed Hichem Mortad, 2022-05-03. 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 reader's 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.

**Principles of Functional Analysis** Martin Schechter, 2025-05-08. This excellent book provides an elegant introduction to functional analysis, carefully selected problems. This is a nicely written book of great value for stimulating active work by students. It can be strongly recommended as an undergraduate or graduate text or as a comprehensive book for self-study. European Mathematical Society Newsletter. Functional analysis plays a crucial role in the applied sciences as well as in mathematics. It is a beautiful subject that can be motivated and studied for its own sake. In keeping with this basic philosophy, the author has made this introductory text accessible to a wide spectrum of students, including beginning-level graduates and advanced undergraduates. The exposition is inviting, following threads of ideas, describing each as fully as possible before moving on to a new topic. Supporting material is introduced as appropriate and

only to the degree needed. Some topics are treated more than once according to the different contexts in which they arise. The prerequisites are minimal requiring little more than advanced calculus and no measure theory. The text focuses on normed vector spaces and their important examples: Banach spaces and Hilbert spaces. The author also includes topics not usually found in texts on the subject. This Second Edition incorporates many new developments while not overshadowing the book's original flavor. Areas in the book that demonstrate its unique character have been strengthened. In particular, new material concerning Fredholm and semi-Fredholm operators is introduced requiring minimal effort as the necessary machinery was already in place. Several new topics are presented but relate to only those concepts and methods emanating from other parts of the book. These topics include perturbation classes, measures of noncompactness, strictly singular operators, and operator constants. Overall, the presentation has been refined, clarified, and simplified, and many new problems have been added. The book is recommended to advanced undergraduates, graduate students, and pure and applied research mathematicians interested in functional analysis and operator theory.

**An Introduction to Models and Decompositions in Operator Theory** Carlos S. Kubrusly, 2012-12-06. By a Hilbert space operator we mean a bounded linear transformation between separable complex Hilbert spaces. Decompositions and models for Hilbert space operators have been very active research topics in operator theory over the past three decades. The main motivation behind them is the invariant subspace problem: does every Hilbert space operator have a nontrivial invariant subspace? This is perhaps the most celebrated open question in operator theory. Its relevance is easy to explain: normal operators have invariant subspaces (witness the Spectral Theorem) as well as operators on finite dimensional Hilbert spaces (witness canonical Jordan form). If one agrees that each of these is the Spectral Theorem and canonical Jordan form is important enough, an achievement to dismiss any further justification, then the search for nontrivial invariant subspaces is a natural one and a recalcitrant one at that. Subnormal operators have nontrivial invariant subspaces, extending the normal branch as well as compact operators extending the finite dimensional branch, but the question remains unanswered even for equally simple, i.e., simple to define, particular classes of Hilbert space operators: examples include hyponormal and quasinilpotent operators. Yet the invariant subspace quest has certainly not been a failure at all, even though far from being settled. The search for nontrivial invariant subspaces has undoubtedly yielded a lot of nice results in operator theory; among them, those concerning decompositions and models for Hilbert space operators. This book contains nine chapters.

**Operator Theory, System Theory and Related Topics** Daniel Alpay, Victor Vinnikov, 2012-12-06. This volume presents the refereed proceedings of the Conference in Operator Theory in Honour of Moshe Livsic's 80th Birthday, held June 29 to July 4, 1997, at the Ben-Gurion University of the Negev, Beer-Sheva, Israel, and at the Weizmann Institute of Science, Rehovot, Israel. The volume contains papers in operator theory and its applications understood in a very wide sense, many of them reflecting directly or indirectly a profound impact of the work of Moshe Livsic. Moshe Mikhail Samuilovich Livsic was born on July 4, 1917, in the small town of Pokotilova near Uman in the province

of Kiev in the Ukraine his family moved to Odessa when he was four years old In 1933 he enrolled in the Department of Physics and Mathematics at the Odessa State University where he became a student of M G Krein and an active participant in Krein's seminar one of the centres where the ideas and methods of functional analysis and operator theory were being developed Besides M G Krein M S Livsic was strongly influenced by V A Levin an outstanding specialist in the theory of analytic functions A by deep understanding of operator theory as well as function theory and a penetrating search of connections between the two were to become one of the landmarks of M S Livsic's work M S Livsic defended his Ph D

**Elements of Operator Theory** Carlos S. Kubrusly, 2013-03-14 *Elements of Operator Theory* is aimed at graduate students as well as a new generation of mathematicians and scientists who need to apply operator theory to their field Written in a user friendly motivating style fundamental topics are presented in a systematic fashion i e set theory algebraic structures topological structures Banach spaces Hilbert spaces culminating with the Spectral Theorem one of the landmarks in the theory of operators on Hilbert spaces The exposition is concept driven and as much as possible avoids the formula computational approach Key features of this largely self contained work include required background material to each chapter fully rigorous proofs over 300 of them are specially tailored to the presentation and some are new more than 100 examples and in several cases interesting counterexamples that demonstrate the frontiers of an important theorem over 300 problems many with hints both problems and examples underscore further auxiliary results and extensions of the main theory in this non traditional framework the reader is challenged and has a chance to prove the principal theorems anew This work is an excellent text for the classroom as well as a self study resource for researchers Prerequisites include an introduction to analysis and to functions of a complex variable which most first year graduate students in mathematics engineering or another formal science have already acquired Measure theory and integration theory are required only for the last section of the final chapter

**Topics in Modern Operator Theory** Constantin, Douglas, Nagy, Voiculescu, 2013-11-21 The first of the annual Operator Theory conferences in Timi oara held four years ago was a meeting of operator theory specialists from the National Institute for Scientific and Technical Creation in Bucharest and from the University of Timi oara Since then the participation to these conferences has greatly increased by being attended first by operator theorists from all over the country and since 1978 by an increasing number of foreign mathematicians Thus the 1980 Conference can be regarded as a truly international Operator Theory meeting fifteen countries being represented at it These conferences are conceived as a means to promote the cooperation between specialists in all areas of Operator Theory Among the main topics in 1980 were dilation theory invariant subspaces connections with the theory of  $C^*$ -algebras subnormal operators multidimensional functional calculus etc Though not included in this volume we would like to mention that in 1980 some special sessions concerning other fields of Functional Analysis were organized at the Operator Theory conference The research contracts of the Department of Mathematics of INCREST with the National Council for Sciences and Technology of



Romania provided the means for developing the research activity in Functional Analysis these contracts constitute the generous framework for these meetings

K-Theory and Operator Algebras B.B. Morrel, I.M. Singer, 2006-11-14

Unbounded Weighted Composition Operators in  $L_2$ -Spaces Piotr Budzyński, Zenon Jabłoński, Il Bong Jung, Jan Stochel, 2018-05-28

This book establishes the foundations of the theory of bounded and unbounded weighted composition operators in  $L_2$  spaces. It develops the theory in full generality meaning that the corresponding composition operators are not assumed to be well defined. A variety of seminormality properties of unbounded weighted composition operators are characterized. The first ever criteria for subnormality of unbounded weighted composition operators are provided and the subtle interplay between the classical moment problem, graph theory and the injectivity problem for weighted composition operators is revealed. The relationships between weighted composition operators and the corresponding multiplication and composition operators are investigated. The optimality of the obtained results is illustrated by a variety of examples including those of discrete and continuous types. The book is primarily aimed at researchers in single or multivariable operator theory.

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