

Analytic Theory of Subnormal Operators

Daoxing Xia



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Theory Of Subnormal Operators

Michael Hoelscher



Theory Of Subnormal Operators:

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

The Theory of Subnormal Operators John B. Conway, 2014-06-06 Includes chapters that cover the basics about subnormal operator theory and present a study of analytic functions on the unit disk This book includes such topics as some results on hyponormal operators a study of weak star rational approximation and a set of results that can be termed structure theorems for subnormal operators

Analytic Theory of Subnormal Operators Daoxing Xia, 2015 *Analytic Theory Of Subnormal Operators* Daoxing Xia, 2014-12-18 This volume contains an important progress on the theory of subnormal operators in the past thirty years which was developed by the author and his collaborators It serves as a guide and basis to students and researchers on understanding and exploring further this new direction in operator theory The volume expounds lucidly on analytic model theory mosaics trace formulas of the subnormal operators and subnormal tuples of operators on the Hilbert spaces

SUBNORMAL OPERATORS, DILATION THEORY AND THE CLASSES $A(N)$ (DUAL ALGEBRAS). PATRICK JOHN. SULLIVAN, 1986 belong to **Operators and Function Theory** S.C. Power, 1985-04-30 In the modern study of Hilbert space operators there has been an increasingly subtle involvement with analytic function theory This is evident in the analysis of subnormal operators Toeplitz operators and Hankel operators for example On the other hand the operator theoretic viewpoint of interpolation by analytic functions is a powerful one There has been significant activity in recent years within these enriching interactions and the time seemed right for an overview of the main lines of development The Advanced Study Institute Operators and Function Theory in Lancaster 1984 was devoted to this and this book contains expanded versions and one contraction of the main lecture programme These varied articles by prominent researchers include for example a survey of recent results on subnormal operators recent work of Soviet mathematicians on Hankel and Toeplitz operators expositions of the decomposition theory and interpolation theory for Bergman Besov and Bloch spaces

with applications for special operators the Krein space approach to interpolation problems and much more It is hoped that these proceedings will bring all this lively mathematics to a wider audience Sincere thanks are due to the Scientific Committee of the North Atlantic Treaty Organisation for the generous support that made the institute possible and to the London Mathematical Society and the British Council for important additional support Warm thanks also go to Barry Johnson and the L M S for early guidance and to my colleague Graham Jameson for much organisational support

Subnormal Operators John B. Conway, 1981

Operator Theory, Operator Algebras and Applications William Arveson, 1990

Operator theory has come of age during the last twenty years The subject has developed in several directions using new and powerful methods that have led to the solution of basic problems previously thought to be inaccessible In addition operator theory has had fundamental connections with a range of other mathematical topics For example operator theory has made mutually enriching contacts with other areas of mathematics such as algebraic topology and index theory complex analysis and probability theory The algebraic methods employed in operator theory are diverse and touch upon a broad area of mathematics There have been direct applications of operator theory to systems theory and statistical mechanics And significant problems and motivations have arisen from the subject's traditional underpinnings for partial differential equations This two volume set contains the proceedings of an AMS Summer Institute on Operator Theory Operator Algebras held in July 1988 at the University of New Hampshire The Institute sought to summarize progress and examine the common points of view that now run through the subject With contributions from some of the top experts in the field this publication illuminates a broad range of current research topics in operator theory

Polynomially Subnormal Operator Tuples Edwin Franks, 1991

Operator Theory and Banach Algebras Mohamed Chidami, 2003 This volume contains the proceedings of the International Conference on Operator Theory and Banach Algebras Over 70 participants from the world over attended The book contains 14 selected refereed papers three are written in English and the rest in French Half are survey papers referring to different domains the remaining papers contain original results with complete proofs The main topics covered are the spectral theory of operators on a Banach space classes of topological algebras with applications to physics different classes of operators on Hilbert and Banach space problems in Banach algebras Lie algebras of operators interaction between complex analysis and operator theory and semigroups of operators All papers have been revised to account for recent developments Overall they present an accurate overview of the domains considered

Journal of Operator Theory, 1998

Operator Theory, Operator Algebras and Related Topics Aurelian Gheondea, Radu-Nicolae Gologan, Dan Timotin, 1997

Notices of the American Mathematical Society American Mathematical Society, 1991

Operators and Function Theory S.C. Power, 2012-03-12 In the modern study of Hilbert space operators there has been an increasingly subtle involvement with analytic function theory This is evident in the analysis of subnormal operators Toeplitz operators and Hankel operators for example On the other hand the operator theoretic viewpoint of interpolation by analytic functions is a

powerful one There has been significant activity in recent years within these enriching interactions and the time seemed right for an overview of the main lines of development The Advanced Study Institute Operators and Function Theory in Lancaster 1984 was devoted to this and this book contains expanded versions and one contraction of the main lecture programme These varied articles by prominent researchers include for example a survey of recent results on subnormal operators recent work of Soviet mathematicians on Hankel and Toeplitz operators expositions of the decomposition theory and interpolation theory for Bergman Besov and Bloch spaces with applications for special operators the Krein space approach to interpolation problems and much more It is hoped that these proceedings will bring all this lively mathematics to a wider audience Sincere thanks are due to the Scientific Committee of the North Atlantic Treaty Organisation for the generous support that made the institute possible and to the London Mathematical Society and the British Council for important additional support Warm thanks also go to Barry Johnson and the L M S for early guidance and to my colleague Graham Jameson for much organisational support

Proceedings of Symposia in Pure Mathematics, 1990 □□□□□□, 2000

Topics in Operator Theory, Operator Algebras and Applications Aurelian Gheondea, Şerban Strătilă, Dan

Timotin, 1995 **Notes on Operator Theory** Peter A. Fillmore, 1970 Operator Theory and Functional Analysis Ivan

Erdelyi, 1979 **Leningrad Mathematical Journal**, 1991

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