

# Subnormal operators of finite type II. Structure theorems

Dmitry V. Yakubovich

**Abstract.** This paper concerns pure subnormal operators with finite rank self-commutator, which we call subnormal operators of finite type. We analyze Xia's theory of these operators [21]-[23] and give its alternative exposition. Our exposition is based on the explicit use of a certain algebraic curve in  $\mathbb{C}^2$ , which we call the discriminant curve of a subnormal operator, and the approach of dual analytic similarity models of [26]. We give a complete structure result for subnormal operators of finite type, which corrects and strenghtens the formulation that Xia gave in [23]. Xia claimed that each subnormal operator of finite type is unitarily equivalent to the operator of multiplication by  $z$  on a weighted vector  $H^2$ -space over a "quadrature Riemann surface" (with a finite rank perturbation of the norm). We explain how this formulation can be corrected and show that, conversely, every "quadrature Riemann surface" gives rise to a family of subnormal operators. We prove that this family is parametrized by the so-called characters. As a departing point of our study, we formulate a kind of scattering scheme for normal operators, which includes Xia's model as a particular case.

## 0. Introduction.

This paper is devoted to an alternative exposition of some aspects of Xia's theory of subnormal operators from a different viewpoint. We make use of the results of [25] and the approach of [26] and give new

# Subnormal Operators

**PATRICK JOHN. SULLIVAN**



## 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

**A Functional Calculus for Subnormal Operators II** John B. Conway, Robert F. Olin, 1977 Let  $S$  be a subnormal operator on a Hilbert space  $\mathcal{H}$  with minimal normal extension  $N$  operating on  $\mathcal{K}$  and let lowercase Greek  $\mu$  be a scalar valued spectral measure for  $N$  If  $P$  infinity symbol lowercase Greek  $\mu$  denotes the weak star closure of the polynomials in  $L$  infinity symbol lowercase Greek  $\mu$   $L^1$  infinity symbol lowercase Greek  $\mu$  then for script  $f$  in  $P$  infinity symbol lowercase Greek  $\mu$  it follows that script  $f$   $N$  leaves script  $\mathcal{H}$  invariant if script  $f$   $S$  is defined as the restriction of script  $f$   $N$  to script  $\mathcal{H}$  then a functional calculus for  $S$  is obtained This functional calculus is investigated in this paper

**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* John B.

Conway, 1981 [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

**On Subnormal Operators** Joseph Bram, 1953 [Analytic Structures for Subnormal Operators](#) John Edward McCarthy, 1989 *Essentially Normal Subnormal Operators and Related Topics* Paul

Joseph McGuire, 1985 **Operator Theory by Example** Stephan Ramon Garcia, Javad Mashreghi, William T.

Ross, 2023-02-09 Aimed at graduate students this textbook provides an accessible and comprehensive introduction to

operator theory Rather than discuss the subject in the abstract this textbook covers the subject through twenty examples of a wide variety of operators discussing the norm spectrum commutant invariant subspaces and interesting properties of each operator The text is supplemented by over 600 end of chapter exercises designed to help the reader master the topics covered in the chapter as well as providing an opportunity to further explore the vast operator theory literature Each chapter also contains well researched historical facts which place each chapter within the broader context of the development of the field as a whole *A Glimpse at Hilbert Space Operators* Sheldon Axler, Peter Rosenthal, Donald Sarason, 2011-04-13 Paul Richard Halmos who lived a life of unbounded devotion to mathematics and to the mathematical community died at the age of 90 on October 2 2006 This volume is a memorial to Paul by operator theorists he inspired Paul's initial research beginning with his 1938 Ph D thesis at the University of Illinois under Joseph Doob was in probability ergodic theory and measure theory A shift occurred in the 1950s when Paul's interest in foundations led him to invent a subject he termed algebraic logic resulting in a succession of papers on that subject appearing between 1954 and 1961 and the book *Algebraic Logic* published in 1962 Paul's first two papers in pure operator theory appeared in 1950 After 1960 Paul's research focused on Hilbert space operators a subject he viewed as encompassing finite dimensional linear algebra Beyond his research Paul contributed to mathematics and to its community in manifold ways as a renowned expositor as an innovative teacher as a tireless editor and through unstinting service to the American Mathematical Society and to the Mathematical Association of America Much of Paul's influence owed at a personal level Paul had a genuine uncalculating interest in people he developed an enormous number of friendships over the years both with mathematicians and with nonmathematicians Many of his mathematical friends including the editors of this volume while absorbing abundant quantities of mathematics at Paul's knee learned from his advice and his example what it means to be a mathematician *Functions of Subnormal Operators* Thomas Len Miller, 1982

**Some Families of Subnormal Operators with Finite Rank Self-commutators** Sarah Ann Stewart, 2001

**Subnormal Operators, Toeplitz Operators, and the Spectral Inclusion Theorem** Gerard E. Keough, 1979

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HASTINGS, 1975 **Polynomially Subnormal Operator Tuples** Edwin Franks, 1991 **Subnormal operators on**

**Hilbert spaces** Adnan Abdelqader Salim Jibril, University of Manchester. Department of Mathematics, Pure and

Applied, 1978 Subnormal Operators and Representations of Algebras of Bounded Analytic Functions and Other Uniform

Algebras Thomas L. Miller, Robert F. Olin, James E. Thomson, 1986 The present memoir lies between operator theory and function theory of one complex variable Motivated by refinements of the analytic functional calculus of a subnormal operator the authors are rapidly directed towards difficult problems of hard analysis Quite specifically the basic objects to be investigated in this paper are the unital continuous algebra homomorphisms lowercase Greek  $\Pi$  italic  $H$  exponent infinity

symbol  $G$  rightwards arrow  $L$   $H$  with the additional property that lowercase Greek  $\pi$   $z$  is a subnormal operator

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

**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 and 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.

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