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# Non-Self-Adjoint Boundary Eigenvalue Problems

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# Non Self Adjoin Boundary Eigenvalue Problems

**R. Mennicken, M. Möller**



## **Non Self Adjoin Boundary Eigenvalue Problems:**

**Non-Self-Adjoint Boundary Eigenvalue Problems** R. Mennicken, M. Möller, 2003-06-26 The North Holland Mathematics Studies series comprises a set of cutting edge monographs and studies This volume explores non self adjoint boundary eigenvalue problems for first order systems of ordinary differential equations and  $n$  th order scalar differential equations

Non-Self-Adjoint Boundary Eigenvalue Problems R. Mennicken, M. Möller, 2003-06-26 This monograph provides a comprehensive treatment of expansion theorems for regular systems of first order differential equations and  $n$  th order ordinary differential equations In 10 chapters and one appendix it provides a comprehensive treatment from abstract foundations to applications in physics and engineering The focus is on non self adjoint problems Bounded operators are associated to these problems and Chapter 1 provides an in depth investigation of eigenfunctions and associated functions for bounded Fredholm valued operators in Banach spaces Since every  $n$  th order differential equation is equivalent to a first order system the main techniques are developed for systems Asymptotic fundamental systems are derived for a large class of systems of differential equations Together with boundary conditions which may depend polynomially on the eigenvalue parameter this leads to the definition of Birkhoff and Stone regular eigenvalue problems An effort is made to make the conditions relatively easy verifiable this is illustrated with several applications in chapter 10 The contour integral method and estimates of the resolvent are used to prove expansion theorems For Stone regular problems not all functions are expandable and again relatively easy verifiable conditions are given in terms of auxiliary boundary conditions for functions to be expandable Chapter 10 deals exclusively with applications in nine sections various concrete problems such as the Orr Sommerfeld equation control of multiple beams and an example from meteorology are investigated Key features Expansion Theorems for Ordinary Differential Equations Discusses Applications to Problems from Physics and Engineering Thorough Investigation of Asymptotic Fundamental Matrices and Systems Provides a Comprehensive Treatment Uses the Contour Integral Method Represents the Problems as Bounded Operators Investigates Canonical Systems of Eigen and Associated Vectors for Operator Functions

*On  $((\lambda))$ -Nonlinear Boundary Eigenvalue Problems* Christiane Tretter, 1993-09 This book discusses non self adjoint  $\lambda$  nonlinear boundary eigenvalue problems for ordinary differential equations Asymptotic boundary conditions for uniform convergence of generalized eigenfunction expansions are given by a recursion and expansion theorems are established by a careful analytic study of the asymptotic behaviour of Green's function The theory is illustrated by various examples from technical mechanics

*Nonconservative Stability Problems of Modern Physics* Oleg N. Kirillov, 2021-03-08 This updated revision gives a complete and topical overview on Nonconservative Stability which is essential for many areas of science and technology ranging from particles trapping in optical tweezers and dynamics of subcellular structures to dissipative and radiative instabilities in fluid mechanics astrophysics and celestial mechanics The author presents relevant mathematical concepts as well as rigorous stability results and numerous classical and

contemporary examples from non conservative mechanics and non Hermitian physics New coverage of ponderomotive magnetism experimental detection of Ziegler's destabilization phenomenon and theory of double diffusive instabilities in magnetohydrodynamics *Spectral Theory of Operator Pencils, Hermite-Biehler Functions, and their Applications* Manfred Möller, Vyacheslav Pivovarchik, 2015-06-11 The theoretical part of this monograph examines the distribution of the spectrum of operator polynomials focusing on quadratic operator polynomials with discrete spectra The second part is devoted to applications Standard spectral problems in Hilbert spaces are of the form  $AI$  for an operator  $A$  and self adjoint operators are of particular interest and importance both theoretically and in terms of applications A characteristic feature of self adjoint operators is that their spectra are real and many spectral problems in theoretical physics and engineering can be described by using them However a large class of problems in particular vibration problems with boundary conditions depending on the spectral parameter are represented by operator polynomials that are quadratic in the eigenvalue parameter and whose coefficients are self adjoint operators The spectra of such operator polynomials are in general no more real but still exhibit certain patterns The distribution of these spectra is the main focus of the present volume For some classes of quadratic operator polynomials inverse problems are also considered The connection between the spectra of such quadratic operator polynomials and generalized Hermite Biehler functions is discussed in detail Many applications are thoroughly investigated such as the Regge problem and damped vibrations of smooth strings Stieltjes strings beams star graphs of strings and quantum graphs Some chapters summarize advanced background material which is supplemented with detailed proofs With regard to the reader's background knowledge only the basic properties of operators in Hilbert spaces and well known results from complex analysis are assumed **The Angular Distribution of Eigenvalues of Non Self-adjoint Elliptic**

**Boundary Value Problems of Higher Order** Shmuel Agmon, 1960 *Proceedings of the American Mathematical Society* American Mathematical Society, 1981 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society **Non-selfadjoint Inverse Spectral Problems and Their Applications to Random Bodies** Matti Lassas, 1995 *Mathematical Reviews*, 2005-06 **International Aerospace Abstracts**, 1980 **Moscow University Mathematics Bulletin** Московский государственный университет им. М.В. Ломоносова, 1988 **The Journal of Integral Equations and Applications**, 1998 **Nonconservative Problems of the Theory of Elastic Stability** Vladimir Vasil'evich Bolotin, 1963 **Spectral Theory, Microlocal Analysis, Singular Manifolds** Michael Demuth, 1997 *Six Lectures on Stability of Elastic Systems* Horst H. E. Leipholz, 1975 **U.S. Government Research & Development Reports**, 1965 **Bibliography of Scientific and Industrial Reports**, 1965-07 *Communications in Applied Analysis*, 1999 **New Technical Books** New York Public Library, 1961 *MRC Technical Summary Report* Mathematics Research Center (United States. Army), 1972

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