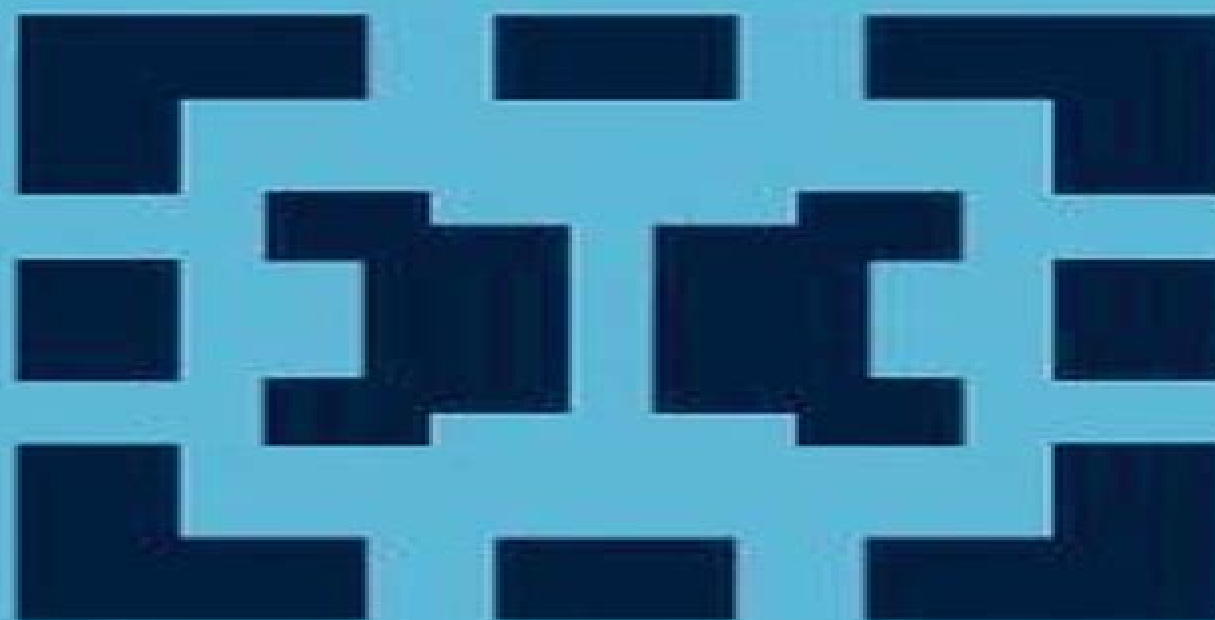


**Mathematics and Its Applications**

**Uri Elias**

**Oscillation Theory of  
Two-Term Differential  
Equations**



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# Oscillation Theory Of Two Term Differential Equations

**Yu.M. Berezhansky, A.A. Kalyuzhnyi**



## Oscillation Theory Of Two Term Differential Equations:

*Oscillation Theory of Two-Term Differential Equations* Elias Uri, 1997-03-31 Oscillation theory was born with Sturm's work in 1836. It has been flourishing for the past fifty years. Nowadays it is a full self-contained discipline turning more towards nonlinear and functional differential equations. Oscillation theory flows along two main streams. The first aims to study properties which are common to all linear differential equations. The other restricts its area of interest to certain families of equations and studies in maximal details phenomena which characterize only those equations. Among them we find third and fourth order equations, self adjoint equations etc. Our work belongs to the second type and considers two term linear equations modeled after  $y^{(n)} + p(x)y = 0$ . More generally we investigate  $L_n y + p(x)y = 0$  where  $L_n$  is a disconjugate operator and  $p(x)$  has a fixed sign. These equations enjoy a very rich structure and are the natural generalization of the Sturm-Liouville operator. Results about such equations are distributed over hundreds of research papers, many of them are reinvented again and again and the same phenomenon is frequently discussed from various points of view and different definitions of the authors. Our aim is to introduce an order into this plenty and arrange it in a unified and self-contained way. The results are readapted and presented in a unified approach. In many cases completely new proofs are given and in no case is the original proof copied verbatim. Many new results are included.

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in maximal details phenomena which characterize only those equations Among them we find third and fourth order equations self adjoint equations etc Our work belongs to the second type and considers two term linear equations modeled after  $y^{(n)} + p(x)y = 0$  More generally we investigate  $L_n y + p(x)y = 0$  where  $L_n$  is a disconjugate operator and  $p(x)$  has a fixed sign These equations enjoy a very rich structure and are the natural generalization of the Sturm Liouville operator Results about such equations are distributed over hundreds of research papers many of them are reinvented again and again and the same phenomenon is frequently discussed from various points of view and different definitions of the authors Our aim is to introduce an order into this plenty and arrange it in a unified and self contained way The results are readapted and presented in a unified approach In many cases completely new proofs are given and in no case is the original proof copied verbatim Many new results are included

*Sturm-Liouville Theory* Werner O. Amrein, Andreas M. Hinz, David B. Pearson, 2005-12-05 This is a collection of survey articles based on lectures presented at a colloquium and workshop in Geneva in 2003 to commemorate the 200th anniversary of the birth of Charles Fran ois Sturm It aims at giving an overview of the development of Sturm Liouville theory from its historical roots to present day research It is the first time that such a comprehensive survey has been made available in compact form The contributions come from internationally renowned experts and cover a wide range of developments of the theory The book can therefore serve both as an introduction to Sturm Liouville theory and as background for ongoing research The volume is addressed to researchers in related areas to advanced students and to those interested in the historical development of mathematics The book will also be of interest to those involved in applications of the theory to diverse areas such as engineering fluid dynamics and computational spectral analysis

Encyclopaedia of Mathematics Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer s highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available

Differential and Difference Equations with Applications Sandra Pinelas, Michel Chipot, Zuzana Dosla, 2013-09-21 The volume contains carefully selected papers presented at the International Conference on Differential Difference Equations and Applications held in Ponta Delgada Azores from July 4-8 2011 in honor of Professor Ravi P Agarwal The objective of the gathering was to bring together researchers in the fields of differential difference equations and to promote the exchange of ideas and research The papers cover all areas of differential and difference equations with a special emphasis on applications

**Sturm-Liouville Theory** Anton Zettl, 2005 In 1836-1837 Sturm and Liouville published a series of papers on second order linear ordinary differential operators which started the subject now known as the Sturm Liouville problem In 1910 Hermann Weyl published an article which started the study of singular Sturm Liouville problems Since then the Sturm Liouville theory remains an

intensely active field of research with many applications in mathematics and mathematical physics The purpose of the present book is a to provide a modern survey of some of the basic properties of Sturm Liouville theory and b to bring the reader to the forefront of knowledge about some aspects of this theory To use the book only a basic knowledge of advanced calculus and a rudimentary knowledge of Lebesgue integration and operator theory are assumed An extensive list of references and examples is provided and numerous open problems are given The list of examples includes those classical equations and functions associated with the names of Bessel Fourier Heun Ince Jacobi Jorgens Latzko Legendre Littlewood McLeod Mathieu Meissner Morse as well as examples associated with the harmonic oscillator and the hydrogen atom Many special functions of applied mathematics and mathematical physics occur in these examples

Ordinary Differential Operators Aiping Wang, Anton Zettl, 2019-11-08 In 1910 Herman Weyl published one of the most widely quoted papers of the 20th century in Analysis which initiated the study of singular Sturm Liouville problems The work on the foundations of Quantum Mechanics in the 1920s and 1930s including the proof of the spectral theorem for unbounded self adjoint operators in Hilbert space by von Neumann and Stone provided some of the motivation for the study of differential operators in Hilbert space with particular emphasis on self adjoint operators and their spectrum Since then the topic developed in several directions and many results and applications have been obtained In this monograph the authors summarize some of these directions discussing self adjoint symmetric and dissipative operators in Hilbert and Symplectic Geometry spaces Part I of the book covers the theory of differential and quasi differential expressions and equations existence and uniqueness of solutions continuous and differentiable dependence on initial data adjoint expressions the Lagrange Identity minimal and maximal operators etc In Part II characterizations of the symmetric self adjoint and dissipative boundary conditions are established In particular the authors prove the long standing Deficiency Index Conjecture In Part III the symmetric and self adjoint characterizations are extended to two interval problems These problems have solutions which have jump discontinuities in the interior of the underlying interval These jumps may be infinite at singular interior points Part IV is devoted to the construction of the regular Green's function The construction presented differs from the usual one as found for example in the classical book by Coddington and Levinson

**Advanced Integration Theory** Corneliu Constantinescu, Wolfgang Filter, K. Weber, 1998-10-31 Since about 1915 integration theory has consisted of two separate branches the abstract theory required by probabilists and the theory preferred by analysts that combines integration and topology As long as the underlying topological space is reasonably nice e g locally compact with countable basis the abstract theory and the topological theory yield the same results but for more complicated spaces the topological theory gives stronger results than those provided by the abstract theory The possibility of resolving this split fascinated us and it was one of the reasons for writing this book The unification of the abstract theory and the topological theory is achieved by using new definitions in the abstract theory The integral in this book is defined in such a way that it coincides in the case of Radon

measures on Hausdorff spaces with the usual definition in the literature As a consequence our integral can differ in the classical case Our integral however is more inclusive It was defined in the book C Constantinescu and K Weber in collaboration with A *Singular Quadratic Forms in Perturbation Theory* Volodymyr Koshmanenko, 2012-12-06 The notion of singular quadratic form appears in mathematical physics as a tool for the investigation of formal expressions corresponding to perturbations devoid of operator sense Numerous physical models are based on the use of Hamiltonians containing perturbation terms with singular properties Typical examples of such expressions are Schrödinger operators with  $O$  potentials AD and Hamiltonians in quantum field theory with perturbations given in terms of operators of creation and annihilation P

**Fixed Point Theory and Best Approximation: The KKM-map Principle** S.P. Singh, B. Watson, P. Srivastava, 2013-04-17 The aim of this volume is to make available to a large audience recent material in nonlinear functional analysis that has not been covered in book format before Here several topics of current and growing interest are systematically presented such as fixed point theory best approximation the KKM map principle and results related to optimization theory variational inequalities and complementarity problems Illustrations of suitable applications are given the links between results in various fields of research are highlighted and an up to date bibliography is included to assist readers in further studies Audience This book will be of interest to graduate students researchers and applied mathematicians working in nonlinear functional analysis operator theory approximations and expansions convex sets and related geometric topics and game theory

Difference Equations, Discrete Dynamical Systems and Applications Martin Bohner, Yiming Ding, Ondřej Došlý, 2015-12-01 These proceedings of the 20th International Conference on Difference Equations and Applications cover the areas of difference equations discrete dynamical systems fractal geometry difference equations and biomedical models and discrete models in the natural sciences social sciences and engineering The conference was held at the Wuhan Institute of Physics and Mathematics Chinese Academy of Sciences Hubei China under the auspices of the International Society of Difference Equations ISDE in July 2014 Its purpose was to bring together renowned researchers working actively in the respective fields to discuss the latest developments and to promote international cooperation on the theory and applications of difference equations This book will appeal to researchers and scientists working in the fields of difference equations discrete dynamical systems and their applications

*Recent Progress in Inequalities* G.V. Milovanovic, 2013-03-14 This volume is dedicated to the late Professor Dragoslav S Mitrinovic 1908 1995 one of the most accomplished masters in the domain of inequalities Inequalities are to be found everywhere and play an important and significant role in almost all subjects of mathematics as well as in other areas of sciences Professor Mitrinovic used to say There are no equalities even in human life inequalities are always encountered This volume provides an extensive survey of the most current topics in almost all subjects in the field of inequalities written by 85 outstanding scientists from twenty countries Some of the papers were presented at the International Memorial Conference dedicated to Professor D S

Mitrinovic which was held at the University of Nis June 20 22 1996 Audience This book will be of great interest to researchers in real complex and functional analysis special functions approximation theory numerical analysis and computation and other fields as well as to graduate students requiring the most up to date results **Convex and Starlike Mappings in Several Complex Variables** Sheng Gong, 2012-12-06 This book deals with the theory of convex and starlike biholomorphic mappings in several complex variables The underlying theme is the extension to several complex variables of geometric aspects of the classical theory of univalent functions This is the first book which systematically studies this topic It gathers together and presents in a unified manner the current state of affairs for convex and starlike biholomorphic mappings in several complex variables The majority of the results presented are due to the author his co workers and his students Audience This volume will be of interest to research mathematicians whose work involves several complex variables and one complex variable ***Harmonic Analysis in Hypercomplex Systems*** Yu.M. Berezansky, A.A. Kalyuzhnyi, 2013-06-29 First works related to the topics covered in this book belong to J Delsarte and B M Le vitan and appeared since 1938 In these works the families of operators that generalize usual translation operators were investigated and the corresponding harmonic analysis was constructed Later starting from 1950 it was noticed that in such constructions an important role is played by the fact that the kernels of the corresponding convolutions of functions are nonnegative and by the properties of the normed algebras generated by these convolutions That was the way the notion of hypercomplex system with continuous basis appeared A hypercomplex system is a normed algebra of functions on a locally compact space  $Q$  the basis of this hypercomplex system Later similar objects hypergroups were introduced which have complex valued measures on  $Q$  as elements and convolution defined to be essentially the convolution of functionals and dual to the original convolution if measures are regarded as functionals on the space of continuous functions on  $Q$  However until 1991 the time when this book was written in Russian there were no monographs containing fundamentals of the theory with an exception of a short section in the book by Yu M Berezansky and Yu G Kondratiev BeKo The authors wanted to give an introduction to the theory and cover the most important subsequent results and examples **Logarithms and Antilogarithms** D. Przeworska-Rolewicz, 2012-12-06 This volume proposes and explores a new definition of logarithmic mappings as invertible selectors of multifunctions induced by linear operators with domains and ranges in an algebra over a field of characteristic zero Several important previously published results are presented Amongst the applications of logarithmic and antilogarithmic mappings are the solution of linear and nonlinear equations in algebras of square matrices Some results may also provide numerical algorithms for the approximation of solutions Audience Research mathematicians and other scientists of other disciplines whose work involves the solution of equations **The Gibbs Phenomenon in Fourier Analysis, Splines and Wavelet Approximations** A.J. Jerri, 1998-08-31 This book represents the first attempt at a unified picture for the presence of the Gibbs or Gibbs Wilbraham phenomenon in applications its analysis and the different methods of filtering

it out The analysis and filtering cover the familiar Gibbs phenomenon in Fourier series and integral representations of functions with jump discontinuities In addition it will include other representations such as general orthogonal series expansions general integral transforms splines approximation and continuous as well as discrete wavelet approximations The material in this book is presented in a manner accessible to upperclassmen and graduate students in science and engineering as well as researchers who may face the Gibbs phenomenon in the varied applications that involve the Fourier and the other approximations of functions with jump discontinuities Those with more advanced backgrounds in analysis will find basic material results and motivations from which they can begin to develop deeper and more general results We must emphasize that the aim of this book the first on the subject to satisfy such a diverse audience is quite difficult In particular our detailed derivations and their illustrations for an introductory book may very well sound repetitive to the experts in the field who are expecting a research monograph To answer the concern of the researchers we can only hope that this book will prove helpful as a basic reference for their research papers

*Integration on Infinite-Dimensional Surfaces and Its Applications* A. Uglov, 2013-06-29 It seems hard to believe but mathematicians were not interested in integration problems on infinite dimensional nonlinear structures up to 70s of our century At least the author is not aware of any publication concerning this theme although as early as 1967 L Gross mentioned that the analysis on infinite dimensional manifolds is a field of research with rather rich opportunities in his classical work 2 This prediction was brilliantly confirmed afterwards but we shall return to this later on In those days the integration theory in infinite dimensional linear spaces was essentially developed in the heuristic works of RP Feynman 1 I M Gelfand A M Yaglom 1 The articles of J Eells 1 J Eells and K D Elworthy 1 H H Kuo 1 V Goodman 1 where the contraction of a Gaussian measure on a hypersurface in particular was built and the divergence theorem the Gauss Ostrogradskii formula was proved appeared only in the beginning of the 70s In this case a Gaussian specificity was essential and it was even pointed out in a later monograph of H H Kuo 3 that the surface measure for the non Gaussian case construction problem is not simple and has not yet been solved A V Skorokhod 1 and the author 6 10 offered different approaches to such a construction Some other approaches were offered later by Yu L Daletskii and B D Maryanin 1 O G Smolyanov 6 N V

Introduction to Vertex Operator Superalgebras and Their Modules Xiaoping Xu, 2013-03-09 This book presents a systematic study on the structures of vertex operator superalgebras and their modules Related theories of self dual codes and lattices are included as well as recent achievements on classifications of certain simple vertex operator superalgebras and their irreducible twisted modules constructions of simple vertex operator superalgebras from graded associative algebras and their anti involutions self dual codes and lattices Audience This book is of interest to researchers and graduate students in mathematics and mathematical physics

**Hilbert Spaces, Wavelets, Generalised Functions and Modern Quantum Mechanics** W.-H. Steeb, 2013-03-07 This book gives a comprehensive introduction to modern quantum mechanics emphasising the underlying Hilbert space theory and generalised function theory



All the major modern techniques and approaches used in quantum mechanics are introduced such as Berry phase coherent and squeezed states quantum computing solitons and quantum mechanics Audience The book is suitable for graduate students in physics and mathematics

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