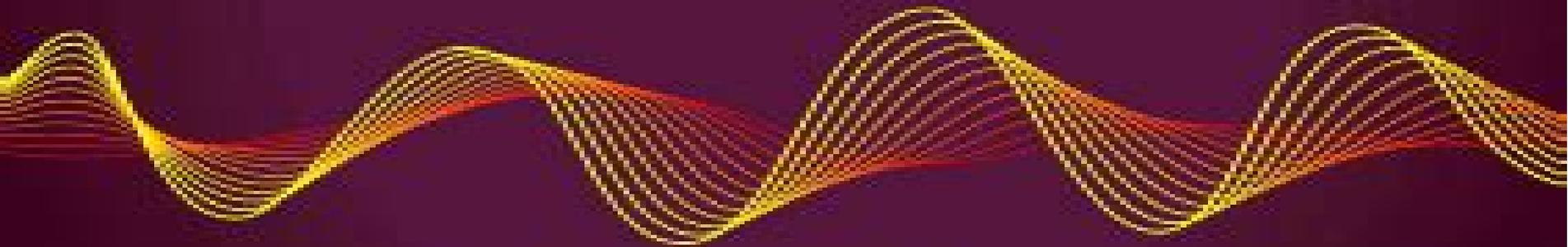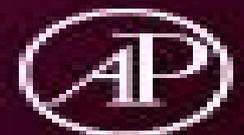Sergei Aliukov

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AND APPLICATIONS

Piecewise Linear and Generalized Functions

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sciences are discussed and analyzed Each chapter enriches the understanding of current research problems and theories in pure and applied research   *Approximation Theory, Spline Functions and Applications* S.P. Singh,2012-12-06 These are the Proceedings of the NATO Advanced Study Institute on Approximation Theory Spline Functions and Applications held in the Hotel villa del Mare Maratea Italy between April 28 1991 and May 9 1991 The principal aim of the Advanced Study Institute as reflected in these Proceedings was to bring together recent and up to date developments of the subject and to give directions for future research Amongst the main topics covered during this Advanced Study Institute is the subject of uni variate and multivariate wavelet decomposition over spline spaces This is a relatively new area in approximation theory and an increasingly impor tant subject The work involves key techniques in approximation theory cardinal splines B splines Euler Frobenius polynomials spline spaces with non uniform knot sequences A number of scientific applications are also highlighted most notably applications to signal processing and digital im age processing Developments in the area of approximation of functions examined in the course of our discussions include approximation of periodic phenomena over irregular node distributions scattered data interpolation Pade approximants in one and several variables approximation properties of weighted Chebyshev polynomials minimax approximations and the Strang Fix conditions and their relation to radial functions I express my sincere thanks to the members of the Advisory Commit tee Professors B Beauzamy E W Cheney J Meinguet D Roux and G M Phillips My sincere appreciation and thanks go to A Carbone E DePas cale R Charron and B

   Applications of q-Calculus in Operator Theory Ali Aral,Vijay Gupta,Ravi P. Agarwal,2013-05-09 The approximation of functions by linear positive operators is an important research topic in general mathematics and it also provides powerful tools to application areas such as computer aided geometric design numerical analysis and solutions of differential equations q Calculus is a generalization of many subjects such as hypergeometric series complex analysis and particle physics This monograph is an introduction to combining approximation theory and q Calculus with applications by using well known operators The presentation is systematic and the authors include a brief summary of the notations and basic definitions of q calculus before delving into more advanced material The many applications of q calculus in the theory of approximation especially on various operators which includes convergence of operators to functions in real and complex domain forms the gist of the book This book is suitable for researchers and students in mathematics physics and engineering and for professionals who would enjoy exploring the host of mathematical techniques and ideas that are collected and discussed in the book   **Pade and Rational Approximation** E.B. Safe,2013-05-09 Pad and Rational Approximation Theory and Applications presents the proceedings of the Conference on Rational Approximation with Emphasis on Applications of Pad Approximants held in Tampa Florida on December 15 17 1976 The contributors focus on the interplay of theory computation and physical applications This book is composed of six parts encompassing 44 chapters The introductory part discusses the general theory of orthogonal polynomials that is the mathematical basis of Pad approximants and related matters evaluation

This text also examines the connection between approximants on a stepline in the ordinary Pad table and certain continued fractions and the convergence of diagonal Pad approximants to a class of functions with an even number of branch points The following parts deal with the special functions and continued fractions of Pad approximation and the theory of rational approximations These parts also investigate the geometric convergence of Chebyshev rational approximation on the half line the optimal approximation by Almost Classical interpolation and the incomplete polynomials approximation The discussion then shifts to the physical applications and computations of the Pad approximants The concluding part presents the applications of rational approximation to gun fire control and to the White Sands Missile Range Computer Facility This part also provides a list of some open problems and conjectures concerning polynomials and rational functions This book is of great benefit to mathematicians physicists and laboratory workers   *Approximation Theory and Related Applications* Yurii Kharkevych,2023 In recent years we have seen a growing interest in various aspects of approximation theory This happened due to the increasing complexity of mathematical models that require computer calculations and the development of the theoretical foundations of the approximation theory Approximation theory has broad and important applications in many areas of mathematics including functional analysis differential equations dynamical systems theory mathematical physics control theory probability theory and mathematical statistics and others Approximation theory is also of great practical importance as approximate methods and estimation of approximation errors are used in physics economics chemistry signal theory neural networks and many other areas This book presents the works published in the Special Issue Approximation Theory and Related Applications The research of the world s leading scientists presented in this book reflect new trends in approximation theory and related topics   Korovkin-type Approximation Theory and Its Applications Francesco Altomare,Michele Campiti,1994 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 35 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob Titles in planning include Flavia Smarazzo and Alberto Tesei

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Approximation Theory George A. Anastassiou,Sorin G. Gal,2000 We study in Part I of this monograph the computational aspect of almost all moduli of continuity over wide classes of functions exploiting some of their convexity properties To our knowledge it is the first time the entire calculus of moduli of smoothness has been included in a book We then present numerous applications of Approximation Theory giving exact val ues of errors in explicit forms The K functional method is systematically avoided since it produces nonexplicit constants All other related books so far have allocated very little space to the computational aspect of moduli of smoothness In Part II we study examine the Global Smoothness Preservation Prop erty GSPP for almost all known linear approximation operators of ap proximation theory including trigonometric operators and algebraic in terpolation operators of Lagrange Hermite Fejer and Shepard type also operators of stochastic type convolution type wavelet type integral opera tors and singular integral operators etc We present also a sufficient general theory for GSPP to hold true We provide a great variety of applications of GSPP to Approximation Theory and many other fields of mathemat ics such as Functional analysis and outside of mathematics fields such as computer aided geometric design CAGD Most of the time GSPP meth ods are optimal Various moduli of smoothness are intensively involved in Part II Therefore methods from Part I can be used to calculate exactly the error of global smoothness preservation It is the first time in the literature that a book has studied GSPP *Theory and Application of Infinite Series* Konrad Knopp,1928 Trans from the 2nd German ed pub 1923 **Theory and Applications of Numerical Analysis** G. M. Phillips,Peter J. Taylor,1996-07-05 Theory and Applications of Numerical Analysis is a self contained Second Edition providing an introductory account of the main topics in numerical analysis The book emphasizes both the theorems which show the underlying rigorous mathematics andthe

algorithms which define precisely how to program the numerical methods Both theoretical and practical examples are included a unique blend of theory and applications two brand new chapters on eigenvalues and splines inclusion of formal algorithms numerous fully worked examples a large number of problems many with solutions *Modern Probability Theory and Its Applications* Emanuel Parzen,1960 Current Index to Statistics, Applications, Methods and Theory ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Theory and Application of Reuse, Integration, and Data Science** Thouraya Bouabana-Tebibel,Lydia Bouzar-Benlabiod,Stuart H. Rubin,2019-05-07 This book presents recent research in the field of reuse and integration and will help researchers and practitioners alike to understand how they can implement reuse in different stages of software development and in various domains from robotics and security authentication to environmental issues Indeed reuse is not only confined to reusing code it can be included in every software development step The challenge today is more about adapting solutions from one language to another or from one domain to another The relative validation of the reused artifacts in their new environment is also necessary at time even critical The book includes high quality research papers on these and many other aspects written by experts in information reuse and integration who cover the latest advances in the field Their contributions are extended versions of the best papers presented at the IEEE International Conference on Information Reuse and Integration IRI and IEEE International Workshop on Formal Methods Integration FMI which were held in San Diego in August 2017 The mathematical theory of probabilities and its applications to... Arne Fisher,1922 **Approximation Theory** Carl De Boor,American Mathematical Society,1986-12-31 The papers in this book first presented at a 1986 AMS Short Course give a brief introduction to approximation theory and some of its current areas of active research both theoretical and applied The first lecture describes and illustrates the basic concerns of the field Topics highlighted in the other lectures include the following approximation in the complex domain N width optimal recovery interpolation algorithms for approximation and splines with a strong emphasis on a multivariate setting for the last three topics The book is aimed at mathematicians interested in an introduction to areas of current research and to engineers and scientists interested in exploring the field for possible applications to their own fields The book is best understood by those with a standard first graduate course in real and complex analysis but some of the presentations are accessible with the minimal requirements of advanced calculus and linear algebra **The Mathematical Theory of Probabilities and Its Application to Frequency Curves and Statistical Methods: Mathematical probabilities, frequency curves, homograde and heterograde statistics** Arne Fisher,1922 The Mathematical theory of probabilities and its application to frequency curves and statistical methods Arne Fisher,1922 **Elements of the Mathematical Theory of Limits** John Gaston Leathem,1925

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