SEQUENCE SPACES AND APPLICATIONS

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Sequence Spaces And Applications

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Sequence Spaces And Applications:

  Sequence Spaces and Applications P.K Jain,1999-04-01 This volume contains referred articles covering areas in classical as well as modern sequence space theory The major topics covered are Classical Sequence Spaces Duals and Matrix Transformation Structure and Topology   *Non-Newtonian Sequence Spaces with Applications* Feyzi Başar,Bipan Hazarika,2025-06-25 Non Newtonian Sequence Spaces with Applications presents an alternative to the usual calculus based on multiplication instead of addition The book is intended for graduate students and researchers with a special interest in non Newtonian calculus its applications and related topics Features Valuable material for postgraduate researchers studying non Newtonian calculus Suitable as supplementary reading to a Computational Physics course   **Sequence Space Theory with Applications** S. A. Mohiuddine,Bipan Hazarika,2022-07-20 The book features original chapters on sequence spaces involving the idea of ideal convergence modulus function multiplier sequences Riesz mean Fibonacci difference matrix etc and illustrate their involvement in various applications The preliminaries have been presented in the beginning of each chapter and then the advanced discussion takes place so it is useful for both expert and nonexpert on aforesaid topics The book consists of original thirteen research chapters contributed by the well recognized researchers in the field of sequence spaces with associated applications Features Discusses the Fibonacci and vector valued difference sequence spaces Presents the solution of Volterra integral equation in Banach algebra Discusses some sequence spaces involving invariant mean and related to the domain of Jordan totient matrix Presents the Tauberian theorems of double sequences Discusses the paranormed Riesz difference sequence space of fractional order Includes a technique for studying the existence of solutions of infinite system of functional integro differential equations in Banach sequence spaces The subject of book is an active area of research of present time internationally and would serve as a good source for researcher and educators involved with the topic of sequence spaces   **Operators Between Sequence Spaces and Applications** Bruno de Malafosse,Eberhard Malkowsky,Vladimir Rakočević,2021-01-19 This book presents modern methods in functional analysis and operator theory along with their applications in recent research The book also deals with the solvability of infinite systems of linear equations in various sequence spaces It uses the classical sequence spaces generalized Cesaro and difference operators to obtain calculations and simplifications of complicated spaces involving these operators In order to make it self contained comprehensive and of interest to a larger mathematical community the authors have presented necessary concepts with results for advanced research topics This book is intended for graduate and postgraduate students teachers and researchers as a basis for further research advanced lectures and seminars   *Approximation Theory, Sequence Spaces and Applications* S. A. Mohiuddine,Bipan Hazarika,Hemant Kumar Nashine,2022-12-07 This book publishes original research chapters on the theory of approximation by positive linear operators as well as theory of sequence spaces and illustrates their applications Chapters are original and contributed by active researchers in the field of approximation theory and sequence spaces Each

chapter describes the problem of current importance and summarizes ways of their solution and possible applications which improve the current understanding pertaining to sequence spaces and approximation theory The presentation of the articles is clear and self contained throughout the book <u>Non-Newtonian Sequence Spaces with Applications</u> Feyzi Başar,Bipan Hazarika,2025-06-25 Non Newtonian Sequence Spaces with Applications presents an alternative to the usual calculus based on multiplication instead of addition The book is intended for graduate students and researchers with a special interest in non Newtonian calculus its applications and related topics Features Valuable material for postgraduate researchers studying non Newtonian calculus Suitable as supplementary reading to a Computational Physics course *Sequence Spaces and Measures of Noncompactness with Applications to Differential and Integral Equations* Józef Banaś,Mohammad Mursaleen,2014-07-18 This book deals with the study of sequence spaces matrix transformations measures of noncompactness and their various applications The notion of measure of noncompactness is one of the most useful ones available and has many applications The book discusses some of the existence results for various types of differential and integral equations with the help of measures of noncompactness in particular the Hausdorff measure of noncompactness has been applied to obtain necessary and sufficient conditions for matrix operators between BK spaces to be compact operators The book consists of eight self contained chapters Chapter 1 discusses the theory of FK spaces and Chapter 2 various duals of sequence spaces which are used to characterize the matrix classes between these sequence spaces FK and BK spaces in Chapters 3 and 4 Chapter 5 studies the notion of a measure of noncompactness and its properties The techniques associated with measures of noncompactness are applied to characterize the compact matrix operators in Chapters 6 In Chapters 7 and 8 some of the existence results are discussed for various types of differential and integral equations which are obtained with the help of argumentations based on compactness conditions **Sequence Spaces** Mohammad Mursaleen,Feyzi Başar,2020-03-10 This book is aimed at both experts and non experts with an interest in getting acquainted with sequence spaces matrix transformations and their applications It consists of several new results which are part of the recent research on these topics It provides different points of view in one volume e g their topological properties geometry and summability fuzzy valued study and more This book presents the important role sequences and series play in everyday life it covers geometry of Banach Sequence Spaces it discusses the importance of generalized limit it offers spectrum and fine spectrum of several linear operators and includes fuzzy valued sequences which exhibits the study of sequence spaces in fuzzy settings This book is the main attraction for those who work in Sequence Spaces Summability Theory and would also serve as a good source of reference for those involved with any topic of Real or Functional Analysis **Infinite Matrices and Sequence Spaces** Richard G. Cooke,2014-06-10 Clear correct summation of basic results on general behavior of infinite matrices features three introductory chapters leading to applications related to summability of divergent sequences and series Nearly 200 examples 1950 edition **Sequence Spaces and Series** P. K. Kamthan,Manjul Gupta,1981 Topological vector spaces

Sequences spaces Conservence of series Further developments in sequences spaces   *Summability Theory and Its Applications* Feyzi Başar,2022-06-27 Summability Theory and Its Applications explains various aspects of summability and demonstrates its applications in a rigorous and coherent manner The content can readily serve as a reference or as a useful series of lecture notes on the subject This substantially revised new edition includes brand new material across several chapters as well as several corrections including the addition of the domain of Cesaro matrix C m of order m in the classical sequence spaces to Chapter 4 and introducing the domain of four dimensional binomial matrix in the spaces of bounded convergent in the Pringsheim s sense both convergent in the Pringsheim s sense and bounded and regularly convergent double sequences in Chapter 7 Features Investigates different types of summable spaces and computes their dual Suitable for graduate students and researchers with a special interest in spaces of single and double sequences matrix transformations and domains of triangle matrices Can serve as a reference or as supplementary reading in a computational physics course or as a key text for special Analysis seminars   Summability Methods, Sequence Spaces and Applications Thomas Emmett Ikard,1970   **Banach Limit and Applications** Gokulananda Das,Sudarsan Nanda,2021-10-25 Banach Limits and Applications provides all the results in the area of Banach limit its extensions generalizations and applications to various fields in one go as far as possible All the results in this field after Banach introduced this concept in the year 1932 are scattered till now Sublinear functionals generating and dominating Banach Limit unique Branch Limit almost convergence invariant means and invariant limits absolute and strong almost convergence applications to ergodicity law of large number Fourier series uniform distribution of sequences uniform density core theorems functional Banach limits are discussed in this book Discovery of functional analysis such as Hahn Banach theorem Banach Steinhaus Theorem helped the researchers to develop a modern rich and unified theory of sequence spaces by enveloping classical summability theory via matrix transformation and the topics related to sequence spaces arose from the concept of Banach limit are presented in this book The unique features of this book are as follows It contains all the results in this area at one place which are scattered till now The book is first of its kinds in the sense that there is no other competitive book The contents of this monograph did not appear in any book form before The audience of this book are the researchers in this area the Ph D and advanced Masters students The book is suitable for one or two semester course work for Ph D students M S Students of North America and Europe M Phil and Masters Students of India   Banach Spaces and their Applications in Analysis Beata Randrianantoanina,Narcisse Randrianantoanina,2011-12-22 In recent years there has been a surge of profound new developments in various aspects of analysis whose connecting thread is the use of Banach space methods Indeed many problems seemingly far from the classical geometry of Banach spaces have been solved using Banach space techniques This volume contains papers by participants of the conference Banach Spaces and their Applications in Analysis held in May 2006 at Miami University in Oxford Ohio in honor of Nigel Kalton s 60th birthday In addition to research articles contributed by

participants the volume includes invited expository articles by principal speakers of the conference who are leaders in their areas These articles present overviews of new developments in each of the conference s main areas of emphasis namely nonlinear theory isomorphic theory of Banach spaces including connections with combinatorics and set theory algebraic and homological methods in Banach spaces approximation theory and algorithms in Banach spaces This volume also contains an expository article about the deep and broad mathematical work of Nigel Kalton written by his long time collaborator Gilles Godefroy Godefroy s article and in fact the entire volume illustrates the power and versatility of applications of Banach space methods and underlying connections between seemingly distant areas of analysis   Function Spaces and Applications Michael Cwikel,Jaak Peetre,Yoram Sagher,Hans E. Wallin,2006-11-15 This seminar is a loose continuation of two previous conferences held in Lund 1982 1983 mainly devoted to interpolation spaces which resulted in the publication of the Lecture Notes in Mathematics Vol 1070 This explains the bias towards that subject The idea this time was however to bring together mathematicians also from other related areas of analysis To emphasize the historical roots of the subject the collection is preceded by a lecture on the life of Marcel Riesz   Mathematical Analysis and Applications Ouayl Chadli,Sourav Das,Ram N. Mohapatra,A. Swaminathan,2022-03-22 This book collects original peer reviewed contributions presented at the International Conference on Mathematical Analysis and Applications MAA 2020 organized by the Department of Mathematics National Institute of Technology Jamshedpur India from 2 4 November 2020 This book presents peer reviewed research and survey papers in mathematical analysis that cover a broad range of areas including approximation theory operator theory fixed point theory function spaces complex analysis geometric and univalent function theory control theory fractional calculus special functions operation research theory of inequalities equilibrium problem Fourier and wavelet analysis mathematical physics graph theory stochastic orders and numerical analysis Some chapters of the book discuss the applications to real life situations This book will be of value to researchers and students associated with the field of pure and applied mathematics   Sequence Spaces and Ideal Convergence with Applications Bipan Hazarika,2013 This book exclusively deals with the study of ideal convergence on different type of sequences spaces The notion of ideal convergence is the generalization of the statistical convergence introduced by H Fast which is an extension of the usual concept of sequential limits The book also discusses the applications of these non matrix methods in approximation theory Written in a self contained style the book discusses in detail the methods of ideal convergence for single sequences along with applications and suitable examples The last chapter gives some applications in approximation theory the results are expected to find application in many other areas of pure and applied mathematics such as mathematical analysis probability fixed point theory and statistics   Advances in Sequence Analysis: Theory, Method, Applications Philippe Blanchard,Felix Bühlmann,Jacques-Antoine Gauthier,2014-07-02 This book gives a general view of sequence analysis the statistical study of successions of states or events It includes innovative contributions on life course studies transitions into and out of

employment contemporaneous and historical careers and political trajectories The approach presented in this book is now central to the life course perspective and the study of social processes more generally This volume promotes the dialogue between approaches to sequence analysis that developed separately within traditions contrasted in space and disciplines It includes the latest developments in sequential concepts coding atypical datasets and time patterns optimal matching and alternative algorithms survey optimization and visualization Field studies include original sequential material related to parenting in 19th century Belgium higher education and work in Finland and Italy family formation before and after German reunification French Jews persecuted in occupied France long term trends in electoral participation and regime democratization Overall the book reassesses the classical uses of sequences and it promotes new ways of collecting formatting representing and processing them The introduction provides basic sequential concepts and tools as well as a history of the method Chapters are presented in a way that is both accessible to the beginner and informative to the expert

Handbook of the Geometry of Banach Spaces ,2003-05-06 Handbook of the Geometry of Banach Spaces <u>Positive Operators and Fixed-Point Theorems with Applications</u> S. A. Mohiuddine,Anupam Das,Dragan S. Djordjević,2025-05-29 This book presents original research on the theory of positive operators alongside fixed point theorems and their diverse applications It introduces various positive operators and explores their approximation properties including Korovkin type theorems Voronovskaja type results convergence rate and other related findings Additionally the book addresses the existence of solutions for various differential and integral equations in different Banach spaces by using Darbo type fixed point theorems This book also presents an interplay between positive operators and fixed point theory Each chapter is self contained addressing a current problem and outlining solutions and potential applications The chapters provide sufficient background to ensure that new definitions and results can be understood independently

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