

**Mathematics and Its Applications**

**Yu. M. Berezansky and  
A. A. Kalyuzhnyi**

**Harmonic Analysis in  
Hypercomplex Systems**



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# Harmonic Analysis In Hypercomplex Systems

**Gregory Budzban, Arunava Mukherjea**



## **Harmonic Analysis In Hypercomplex Systems:**

Harmonic Analysis in Hypercomplex Systems Yu. M. Berezansky, A. A. Kalyuzhnyi, 2014-01-15      **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. Levitan 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.

*Harmonic Analysis of Probability Measures on Hypergroups* Walter R. Bloom, Herbert Heyer, 2011-04-20 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 30 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.

**Modern Methods in Operator Theory and Harmonic Analysis** Alexey Karapetyants, Vladislav Kravchenko, Elijah Liflyand, 2019-08-28 This proceedings volume gathers selected peer reviewed papers from the Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis VIII OTHA 2018 conference which was held in Rostov on Don, Russia in April 2018. The book covers a diverse range of topics in advanced mathematics including harmonic

analysis functional analysis operator theory function theory differential equations and fractional analysis all fields that have been intensively developed in recent decades Direct and inverse problems arising in mathematical physics are studied and new methods for solving them are presented Complex multiparameter objects that require the involvement of operators with variable parameters and functional spaces with fractional and even variable exponents make these approaches all the more relevant Given its scope the book will especially benefit researchers with an interest in new trends in harmonic analysis and operator theory though it will also appeal to graduate students seeking new and intriguing topics for further investigation

**Harmonic Analysis On Hypergroups: Approximation And Stochastic Sequences** Rupert Lasser, 2022-12-06 The book aims at giving a monographic presentation of the abstract harmonic analysis of hypergroups while combining it with applied topics of spectral analysis approximation by orthogonal expansions and stochastic sequences Hypergroups are locally compact Hausdorff spaces equipped with a convolution an involution and a unit element Related algebraic structures had already been studied by Frobenius around 1900 Their axiomatic characterisation in harmonic analysis was later developed in the 1970s Hypergroups naturally emerge in seemingly different application areas as time series analysis probability theory and theoretical physics The book presents harmonic analysis on commutative and polynomial hypergroups as well as weakly stationary random fields and sequences thereon For polynomial hypergroups also difference equations and stationary sequences are considered At greater extent than in the existing literature the book compiles a rather comprehensive list of hypergroups in particular of polynomial hypergroups With an eye on readers at advanced undergraduate and graduate level the proofs are generally worked out in careful detail The bibliography is extensive

**Voronezh Winter Mathematical Schools** Peter Kuchment, 1998 The Voronezh Winter Mathematical School was an annual event in the scientific life of the former Soviet Union for 25 years Articles collected here are written by prominent mathematicians and former lecturers and participants of the school covering a range of subjects in analysis and geometry Specific topics include global analysis harmonic analysis function theory dynamical systems operator theory mathematical physics spectral theory homogenization algebraic geometry differential geometry and geometric analysis For researchers and graduate students in analysis geometry and mathematical physics No index Annotation copyrighted by Book News Inc Portland OR

**Boolean Valued Analysis** A.G. Kusraev, Semën Samsonovich Kutateladze, 2012-12-06 Boolean valued analysis is a technique for studying properties of an arbitrary mathematical object by comparing its representations in two different set theoretic models whose construction utilises principally distinct Boolean algebras The use of two models for studying a single object is a characteristic of the so called non standard methods of analysis Application of Boolean valued models to problems of analysis rests ultimately on the procedures of ascending and descending the two natural functors acting between a new Boolean valued universe and the von Neumann universe This book demonstrates the main advantages of Boolean valued analysis which provides the tools for transforming for example function spaces to subsets of the reals operators to functionals and vector functions to numerical

mappings Boolean valued representations of algebraic systems Banach spaces and involutive algebras are examined thoroughly Audience This volume is intended for classical analysts seeking powerful new tools and for model theorists in search of challenging applications of nonstandard models

*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

**Global Analysis in Linear Differential Equations** M. Kohno, 1999-04-30 Since the initiative works for global analysis of linear differential equations by G G Stokes and B Riemann in 1857 the Airy function and the Gauss hypergeometric function became the most important and the greatest practical special functions which have a variety of applications to mathematical science physics and engineering The effectivity of these functions is essentially due to their behavior in the large For instance the Airy function plays a basic role in the asymptotic analysis of many functions arising as solutions of differential equations in several problems of applied mathematics In case of the employment of its behavior one should always pay attention to the Stokes phenomenon On the other hand as is well known the Gauss hypergeometric function arises in all fields of mathematics e g in number theory in the theory of groups and in analysis itself It is not too much to say that all power series are special or extended cases of the hypergeometric series For the full use of its properties one needs connection formulas or contiguous relations

**Applications of Hypergroups and Related Measure Algebras**, 1995-02-28 The most important single thing about this conference was that it brought together for the first time representatives of all major groups of users of hypergroups They talked to each other about how they were using hypergroups in fields as diverse as special functions probability theory representation theory measure algebras Hopf algebras and Hecke algebras This led to fireworks from the Introduction Hypergroups occur in a wide variety of contexts and mathematicians the world over have been discovering this same mathematical structure hidden in very different applications

The diverse viewpoints on the subject have led to the need for a common perspective if not a common theory Presenting the proceedings of a Joint Summer Research Conference held in Seattle in the summer of 1993 this book will serve as a valuable starting point and reference tool for the wide range of users of hypergroups and make it easier for an even larger audience to use these structures in their work

*Harmonic Analysis and Hypergroups* Ken Ross, 2013-11-11 An underlying theme in this text is the notion of hypergroups the theory of which has been developed and used in fields as diverse as special functions differential equations probability theory representation theory measure theory Hopf algebras and quantum groups Other topics include the harmonic analysis of analytic functions ergodic theory and wavelets

**Structural Aspects in the Theory of Probability** Herbert Heyer, 2004 This book focuses on the algebraic topological aspects of probability theory leading to a wider and deeper understanding of basic theorems such as those on the structure of continuous convolution semigroups and the corresponding processes with independent increments

**Fourier Series in Orthogonal Polynomials** Boris Osilenker, 1999 This book presents a systematic course on general orthogonal polynomials and Fourier series in orthogonal polynomials It consists of six chapters Chapter 1 deals in essence with standard results from the university course on the function theory of a real variable and on functional analysis Chapter 2 contains the classical results about the orthogonal polynomials some properties classical Jacobi polynomials and the criteria of boundedness The main subject of the book is Fourier series in general orthogonal polynomials Chapters 3 and 4 are devoted to some results in this topic classical results about convergence and summability of Fourier series in  $L^2$  micro summability almost everywhere by the Cesaro means and the Poisson Abel method for Fourier polynomial series are the subject of Chapters 4 and 5 The last chapter contains some estimates regarding the generalized shift operator and the generalized product formula associated with general orthogonal polynomials The starting point of the technique in Chapters 4 and 5 is the representations of bilinear and trilinear forms obtained by the author The results obtained in these two chapters are new ones Chapters 2 and 3 and part of Chapter 1 will be useful to postgraduate students and one can choose them for treatment This book is intended for researchers mathematicians and physicists whose work involves function theory functional analysis harmonic analysis and approximation theory

**Probability on Algebraic Structures** Gregory Budzban, Arunava Mukherjee, 2000 This volume presents results from an AMS Special Session held on the topic in Gainesville FL Papers included are written by an international group of well known specialists who offer an important cross section of current work in the field In addition there are two expository papers that provide an avenue for non specialists to comprehend problems in this area The breadth of research in this area is evident by the variety of articles presented in the volume Results concern probability on Lie groups and general locally compact groups Generalizations of groups appear as hypergroups abstract semigroups and semigroups of matrices Work on symmetric cones is included Lastly there are a number of articles on the current progress in constructing stochastic processes on quantum groups

**Advanced Integration Theory** Corneliu Constantinescu, Wolfgang Filter, Karl

Weber,2012-12-06 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 **Integration on**

**Infinite-Dimensional Surfaces and Its Applications** A. Uglanov,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 **Superanalysis** Andrei Y.

Khrennikov,2012-12-06 defined as elements of Grassmann algebra an algebra with anticommuting generators The derivatives of these elements with respect to anticommuting generators were defined according to algebraic laws and nothing like Newton's analysis arose when Martin's approach was used Later during the next twenty years the algebraic apparatus developed by Martin was used in all mathematical works We must point out here the considerable contribution made by F A Berezin G 1 Kac D A Leites B Kostant In their works they constructed a new division of mathematics which can naturally be called an algebraic superanalysis Following the example of physicists researchers called the investigations carried out with the use of commuting and anticommuting coordinates supermathematics all mathematical objects that appeared in supermathematics were called superobjects although of course there is nothing super in supermathematics However despite the great achievements in algebraic superanalysis this formalism could not be regarded as a generalization

to the case of commuting and anticommuting variables from the ordinary Newton analysis. What is more, Schwinger's formalism was still used in practically all physical works on an intuitive level and physicists regarded functions of anticommuting variables as real functions maps of sets and not as elements of Grassmann algebras. In 1974 Salam and Strathdee proposed a very apt name for a set of super points. They called this set a superspace.

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.

*Elimination Methods in Polynomial Computer Algebra* V. Bykov, A. Kytmanov, M. Lazman, Mikael Passare, 2012-12-06. The subject of this book is connected with a new direction in mathematics which has been actively developed over the last few years, namely the field of polynomial computer algebra which lies at the intersection point of algebra, mathematical analysis and programming. There were several incentives to write the book. First of all, there has lately been a considerable interest in applied nonlinear problems characterized by multiple stationary states. Practical needs have then in their turn led to the appearance of new theoretical results in the analysis of systems of nonlinear algebraic equations. And finally, the introduction of various computer packages for analytic manipulations has made it possible to use complicated elimination theoretical algorithms in practical research. The structure of the book is accordingly represented by three main parts: Mathematical results, driven to constructive algorithms; computer algebra realizations of these algorithms and applications. Nonlinear systems of algebraic equations arise in diverse fields of science. In particular, for processes described by systems of differential equations with a polynomial right hand side, one is faced with the problem of determining the number and location of the stationary states in certain sets.

*Existence Theory for Nonlinear Integral and Integrodifferential Equations* Donal O'Regan, Maria Meehan, 2012-12-06. The theory of integral and integrodifferential equations has advanced rapidly over the last twenty years. Of course, the question of existence is an age old problem of major importance. This monograph is a collection of some of the most advanced results to date in this field. The book is organized as follows. It is divided into twelve chapters. Each chapter surveys a major area of research. Specifically, some of the areas considered are Fredholm and Volterra integral and integrodifferential equations, resonant and nonresonant problems in integral inclusions, stochastic equations and periodic problems. We note that the selected topics reflect the particular interests of the authors. Donal O'Regan, Maria Meehan.

CHAPTER 1 INTRODUCTION AND PRELIMINARIES

1.1 Introduction. The aim of this book is firstly to provide a comprehensive existence theory for integral and integrodifferential equations and secondly to present some specialised topics in integral equations which we hope will inspire further research in the area. To this end



the first part of the book deals with existence principles and results for nonlinear Fredholm and Volterra integro-differential equations on compact and half open intervals while selected topics which reflect the particular interests of the authors such as nonresonance and resonance problems equations in Banach spaces inclusions and stochastic equations are presented in the latter part

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