

M. Nedeljkov, S. Pilipović
and D. Scarpalezos

The linear theory of Colombeau generalized functions



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Linear Theory Of Colombeau Generalized Functions

Bogoljub Stankovic



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Linear Theory of Colombeau Generalized Functions M Nedeljkov, S Pilipovic, D Scarpalezos, 1998-05-20 Results from the now classical distribution theory involving convolution and Fourier transformation are extended to cater for Colombeau's generalized functions. Indications are given how these particular generalized functions can be used to investigate linear equations and pseudo differential operators. Furthermore applications are also given to problems with nonregular data.

Geometric Theory of Generalized Functions with Applications to General Relativity M. Grosser, M. Kunzinger, Michael Oberguggenberger, R. Steinbauer, 2013-04-17 Over the past few years a certain shift of focus within the theory of algebras of generalized functions in the sense of J F Colombeau has taken place. Originating in infinite dimensional analysis and initially applied mainly to problems in nonlinear partial differential equations involving singularities, the theory has undergone a change both in internal structure and scope of applicability due to a growing number of applications to questions of a more geometric nature. The present book is intended to provide an in depth presentation of these developments comprising its structural aspects within the theory of generalized functions as well as a selective but as we hope representative set of applications. This main purpose of the book is accompanied by a number of subordinate goals which we were aiming at when arranging the material included here. First despite the fact that by now several excellent monographs on Colombeau algebras are available we have decided to give a self contained introduction to the field in Chapter 1. Our motivation for this decision derives from two main features of our approach. On the one hand in contrast to other treatments of the subject we base our introduction to the field on the so called special variant of the algebras which makes many of the fundamental ideas of the field particularly transparent and at the same time facilitates and motivates the introduction of the more involved concepts treated later in the chapter. On the Foundations of Nonlinear Generalized Functions I and II Michael Grosser, 2001 In part 1 of this title the authors construct a diffeomorphism invariant Colombeau type differential algebra canonically containing the space of distributions in the sense of L Schwartz. Employing differential calculus in infinite dimensional convenient vector spaces previous attempts in this direction are unified and completed. Several classification results are achieved and applications to nonlinear differential equations involving singularities are given. *Nonlinear Theory of Generalized Functions* Michael Oberguggenberger, Michael Grosser, Michael Kunzinger, Gunther Hormann, 1999-03-16 Questions regarding the interplay of nonlinearity and the creation and propagation of singularities arise in a variety of fields including nonlinear partial differential equations, noise driven stochastic partial differential equations, general relativity and geometry with singularities. A workshop held at the Erwin Schrödinger International Institute for Mathematical Physics in Vienna investigated these questions and culminated in this volume of invited papers from experts in the fields of nonlinear partial differential equations, structure theory of generalized functions, geometry and general relativity, stochastic partial differential equations and nonstandard analysis. The authors provide the latest research relevant

to work in partial differential equations mathematical physics and nonlinear analysis With a focus on applications this book provides a compilation of recent approaches to the problem of singularities in nonlinear models The theory of differential algebras of generalized functions serves as the central theme of the project along with its interrelations with classical methods

Lie Theory and Its Applications in Physics Vladimir Dobrev, 2016-12-10 This volume presents modern trends in the area of symmetries and their applications based on contributions from the workshop Lie Theory and Its Applications in Physics held near Varna Bulgaria in June 2015 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend has been towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are employed in their widest sense embracing representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators PDO special functions and others Furthermore the necessary tools from functional analysis are included

This is a large interdisciplinary and interrelated field and the present volume is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory

Stochastic Analysis and Related Topics VIII Ulug Capar, A.S. Üstünel, 2012-12-06 Over the last years stochastic analysis has had an enormous progress with the impetus originating from different branches of mathematics PDEs and the Malliavin calculus quantum physics path space analysis on curved manifolds via probabilistic methods and more This volume contains selected contributions which were presented at the 8th Silivri Workshop on Stochastic Analysis and Related Topics held in September 2000 in Gazimagusa North Cyprus The topics include stochastic control theory generalized functions in a nonlinear setting tangent spaces of manifold valued paths with quasi invariant measures and applications in game theory theoretical biology and theoretical physics Contributors A.E. Bashirov A. Bensoussan and J. Frehse U. Capar and H. Aktuglul A.B. Cruzeiro and Kai Nan Xiang E. Hausenblas Y. Ishikawa N. Mahmudov P. Malliavin and U. Taneri N. Privault A. S. Üstünel

Generalized Solutions of Nonlinear Partial Differential Equations E.E. Rosinger, 1987-11-01 During the last few years several fairly systematic nonlinear theories of generalized solutions of rather arbitrary nonlinear partial differential equations have emerged The aim of this volume is to offer the reader a sufficiently detailed introduction to two of these recent nonlinear theories which have so far contributed most to the study of generalized solutions of nonlinear partial differential equations bringing the reader to the level of ongoing research The essence of the two nonlinear theories presented in this volume is the observation that much of the mathematics concerning existence uniqueness regularity etc of generalized solutions for nonlinear partial differential equations can be reduced to elementary calculus in Euclidean spaces combined with elementary algebra in quotient rings of families of smooth functions on Euclidean spaces all of that joined by certain asymptotic interpretations In this way one

avoids the complexities and difficulties of the customary functional analytic methods which would involve sophisticated topologies on various function spaces The result is a rather elementary yet powerful and far reaching method which can among others give generalized solutions to linear and nonlinear partial differential equations previously unsolved or even unsolvable within distributions or hyperfunctions Part 1 of the volume discusses the basic limitations of the linear theory of distributions when dealing with linear or nonlinear partial differential equations particularly the impossibility and degeneracy results Part 2 examines the way Colombeau constructs a nonlinear theory of generalized functions and then succeeds in proving quite impressive existence uniqueness regularity etc results concerning generalized solutions of large classes of linear and nonlinear partial differential equations Finally Part 3 is a short presentation of the nonlinear theory of Rosinger showing its connections with Colombeau's theory which it contains as a particular case

Generalized Functions, Convergence Structures, and Their Applications Bogoljub Stankovic, 2012-12-06 This Proceedings consists of a collection of papers presented at the International Conference Generalized functions convergence structures and their applications held from June 23-27 1987 in Dubrovnik Yugoslavia GFCA 87-71 participants from 21 countries from all over the world took part in the Conference Proceedings reflects the work of the Conference Plenary lectures of J Burzyk J F Colombeau W Gähler H Keiter H Komatsu B Stankovic H G Tillman V S Vladimirov provide an up to date account of the current state of the subject All these lectures except H G Tillman's are published in this volume The published communications give the contemporary problems and achievements in the theory of generalized functions in the theory of convergence structures and in their applications specially in the theory of partial differential equations and in the mathematical physics New approaches to the theory of generalized functions are presented motivated by concrete problems of applications The presence of articles of experts in mathematical physics contributed to this aim At the end of the volume one can find presented open problems which also point to further course of development in the theory of generalized functions and convergence structures We are very grateful to Mr Milan Manojlovic who typed these Proceedings with extreme skill and diligence and with inexhaustible patience

Analysis, Probability, Applications, and Computation Karl-Olof Lindahl, Torsten Lindström, Luigi G. Rodino, Joachim Toft, Patrik Wahlberg, 2019-04-29 This book is a collection of short papers from the 11th International ISAAC Congress 2017 in Växjö Sweden The papers written by the best international experts are devoted to recent results in mathematics with a focus on analysis The volume provides to both specialists and non specialists an excellent source of information on the current research in mathematical analysis and its various interdisciplinary applications

Non-Linear Partial Differential Equations E.E. Rosinger, 1990-11-22 A massive transition of interest from solving linear partial differential equations to solving nonlinear ones has taken place during the last two or three decades The availability of better computers has often made numerical experimentations progress faster than the theoretical understanding of nonlinear partial differential equations The three most important nonlinear phenomena observed so far both experimentally and

numerically and studied theoretically in connection with such equations have been the solitons shock waves and turbulence or chaotical processes In many ways these phenomena have presented increasing difficulties in the mentioned order In particular the latter two phenomena necessarily lead to nonclassical or generalized solutions for nonlinear partial differential equations

A Nonlinear Theory of Generalized Functions Hebe de Azevedo Biagioni, 2006-11-14 This book provides a simple introduction to a nonlinear theory of generalized functions introduced by J F Colombeau which gives a meaning to any multiplication of distributions This theory extends from pure mathematics it presents a faithful generalization of the classical theory of C functions and provides a synthesis of most existing multiplications of distributions to physics it permits the resolution of ambiguities that appear in products of distributions passing through the theory of partial differential equations both from the theoretical viewpoint it furnishes a concept of weak solution of pde s leading to existence uniqueness results in many cases where no distributional solution exists and the numerical viewpoint it introduces new and efficient methods developed recently in elastoplasticity hydrodynamics and acoustics This text presents basic concepts and results which until now were only published in article form It is intended for mathematicians but since the theory and applications are not dissociated it may also be useful for physicists and engineers The needed prerequisites for its reading are essentially reduced to the classical notions of differential calculus and the theory of integration over n dimensional euclidean spaces

Semitopological Vector Spaces Mark Burgin, 2017-06-26 This new volume shows how it is possible to further develop and essentially extend the theory of operators in infinite dimensional vector spaces which plays an important role in mathematics physics information theory and control theory The book describes new mathematical structures such as hypernorms hyperseminorms hypermetrics semitopological vector spaces hypernormed vector spaces and hyperseminormed vector spaces It develops mathematical tools for the further development of functional analysis and broadening of its applications Exploration of semitopological vector spaces hypernormed vector spaces hyperseminormed vector spaces and hypermetric vector spaces is the main topic of this book A new direction in functional analysis called quantum functional analysis has been developed based on polinormed and multinormed vector spaces and linear algebras At the same time normed vector spaces and topological vector spaces play an important role in physics and in control theory To make this book comprehensible for the reader and more suitable for students with some basic knowledge in mathematics denotations and definitions of the main mathematical concepts and structures used in the book are included in the appendix making the book useful for enhancing traditional courses of calculus for undergraduates as well as for separate courses for graduate students The material of *Semitopological Vector Spaces* *Hypernorms* *Hyperseminorms* and *Operators* is closely related to what is taught at colleges and universities It is possible to use a definite number of statements from the book as exercises for students because their proofs are not given in the book but left for the reader

Generalized Functions And Convergence: Memorial Volume For Professor Jan Mikusinski Piotr Antosik, Andrzej Kaminski, 1990-09-12 The conference was devoted to

the memory of the late Professor Jan Mikusinski The proceedings is divided into three parts The first one contains biographical materials and memoirs about Professor Mikusinski and his work The second part is devoted to the theory of generalized functions and the third to convergence structures Recent Advances in Modeling, Analysis and Systems Control: Theoretical Aspects and Applications El Hassan Zerrik,Said Melliani,Oscar Castillo,2019-08-26 This book describes recent developments in a wide range of areas including the modeling analysis and control of dynamical systems and explores related applications The book provided a forum where researchers have shared their ideas results on theory and experiments in application problems The current literature devoted to dynamical systems is quite large and the authors choice for the considered topics was motivated by the following considerations Firstly the mathematical jargon for systems theory remains quite complex and the authors feel strongly that they have to maintain connections between the people of this research field Secondly dynamical systems cover a wider range of applications including engineering life sciences and environment The authors consider that the book is an important contribution to the state of the art in the fuzzy and dynamical systems areas

Encyclopaedia of Mathematics, Supplement III Michiel Hazewinkel,2007-11-23 This is the third supplementary volume to Kluwer s highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date

Encyclopaedia of Mathematics available **World Congress of Nonlinear Analysts '92** V. Lakshmikantham,2011-11-14 No detailed description available for World Congress of Nonlinear Analysts 92 **Applications of Mathematics in**

Mechanics Bogoljub Stanković,2006 New Developments in Pseudo-Differential Operators Luigi Rodino,M. W. Wong,2009-01-06 This volume consists of peer reviewed papers related to lectures on pseudo differential operators presented at the meeting of the ISAAC Group in Pseudo Differential Operators IGPDO held on August 13 18 2007 and invited papers by experts in the field Progress in Analysis Heinrich G. W. Begehr,Robert Pertsch Gilbert,Man Wah Wong,2003 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting

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web according to the aashto lrfd guide specifications for the design of pedestrian bridges 1 pedestrian induced vertical

vibrations are negligible when the fundamental frequency in a vertical mode of the bridge is greater than 3 0 hz transverse vibrations are considered

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web may 8 2020 the american association of state highway and transportation officials recently released the 9th edition of its lrfd bridge design specifications guide which employs the load and resistance factor design or lrfd methodology in the design evaluation and rehabilitation of bridges

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web in pedestrian bridge design aashto lrfd stipulates that the design wind load for a chain link or metal fabric fence shall be 15 pounds per square foot applied to the full fence height this clause from aashto lrfd is not in the aashto pedestrian bridge guide nor aashto signs calculating wind load on fences or rail

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