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Nonlinear Theory of Generalized Functions



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Nonlinear Theory Of Generalized Functions

E.E. Rosinger



Nonlinear Theory Of Generalized Functions:

A Nonlinear Theory of Generalized Functions Hebe Azevedo Biagioni, 1990 *Nonlinear Theory of Generalized Functions* Michael Oberguggenberger, Michael Grosser, Michael Kunzinger, Gunther Hormann, 2022-02-27 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 **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 **Nonlinear Theory of Generalized Functions** M. Oberguggenberger, M. Grosser, M. Kunzinger, 1998-11-01 **Introduction to a Nonlinear Theory of Generalized Functions** Hebe Azevedo Biagioni, 1988 **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 books 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

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

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 mono graphs 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 *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 *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 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 **Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 1** Vladimir Dobrev, 2018-11-28 This book is the first volume of proceedings from the joint conference X International Symposium Quantum Theory and Symmetries QTS X and XII International Workshop Lie Theory and Its Applications in Physics LT XII held on 19-25 June 2017 in Varna Bulgaria The QTS series was founded on the core principle that symmetries underlie all descriptions of quantum systems It has since evolved into a symposium at the forefront of theoretical and mathematical physics The LT series covers the whole field of Lie theory in its widest sense together with

its applications in many areas of physics As an interface between mathematics and physics the workshop serves as a meeting place for mathematicians and theoretical and mathematical physicists In dividing the material between the two volumes the Editor has sought to select papers that are more oriented toward mathematics for the first volume and those focusing more on physics for the second However this division is relative since many papers are equally suitable for either volume The topics addressed in this volume represent the latest trends in the fields covered by the joint conferences representation theory integrability entanglement quantum groups number theory conformal geometry quantum affine superalgebras noncommutative geometry Further they present various mathematical results on minuscule modules symmetry breaking operators Kashiwara crystals meta conformal invariance the superintegrable Zernike system

Generalized Functions and Their Applications R.S. Pathak, 2013-11-11 The International Symposium on Generalized Functions and Their Applications was organized by the Department of Mathematics Banaras Hindu University and held December 23-26 1991 on the occasion of the Platinum Jubilee Celebration of the university More than a hundred mathematicians from ten countries participated in the deliberations of the symposium Thirty lectures were delivered on a variety of topics within the area The contributions to the proceedings of the symposium are with a few exceptions expanded versions of the lectures delivered by the invited speakers The survey papers by Komatsu and Hoskins and Sousa Pinto provide an up to date account of the theory of hyperfunctions ultradistributions and microfunctions and the nonstandard theory of new generalized functions respectively those by Stankovic and Kanwal deal with structures and asymptotics Choquet Bruhat's work studies generalized functions on manifold and gives applications to shocks and discrete models The other contributions relate to contemporary problems and achievements in theory and applications especially in the theory of partial differential equations differential geometry mechanics mathematical physics and systems science The proceedings give a very clear impression of the present state of the art in this field and contain many challenges ideas and open problems The volume is very helpful for a broad spectrum of readers graduate students to mathematical researchers

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 *Advances in Analysis, Probability and Mathematical Physics* Sergio Albeverio, Wilhelm A.J. Luxemburg, Manfred P.H. Wolff, 2013-03-14 In 1961 Robinson introduced an entirely new version of the theory of infinitesimals which he called Nonstandard analysis Nonstandard here refers to the nature of new fields of numbers as defined by nonstandard models of the first order theory of the reals This system of numbers was closely related to the ring of Schmieden and Laugwitz developed independently a few years earlier During the last thirty years the use of nonstandard models in mathematics has taken its rightful place among the various methods employed by mathematicians The contributions in this volume have been selected to present a panoramic view of the various directions in which nonstandard analysis is advancing thus serving as a source of inspiration for future research Papers have been grouped in sections dealing with analysis topology and topological groups probability theory and mathematical physics This volume can be used as a complementary text to courses in nonstandard analysis and will be of interest to graduate students and researchers in both pure and applied mathematics and physics

Recent Advances in Fuzzy Sets Theory, Fractional Calculus, Dynamic Systems and Optimization Said Melliani, Oscar Castillo, 2022-08-10 We describe in this book recent advances in fuzzy sets theory fractional calculus dynamic systems and optimization The book provides a setting for the discussion of recent developments in a wide variety of topics including partial differential equations dynamic systems optimization numerical analysis fuzzy sets theory fractional calculus and its applications The book is aimed at bringing together contributions from leading academic scientists researchers and research scholars to exchange and share their experiences and research results on all aspects of applied mathematics modeling algebra economics finance and applications It also provides an interdisciplinary platform for researchers practitioners and educators to present the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of applied mathematics The published chapters address various aspects of academic scientists researchers and research scholars in many variety mathematical topics

Developments in Nonstandard Mathematics Nigel J Cutland, Vitor Neves, A F Oliveira, Jose Sousa-Pinto, 2020-01-30 This book contains expository papers and articles reporting on recent research by leading world experts in nonstandard mathematics arising from the International Colloquium on Nonstandard Mathematics held at the University of Aveiro Portugal in July 1994 Nonstandard mathematics originated with Abraham Robinson and the body of ideas that have developed from this theory of nonstandard analysis now vastly extends Robinson's work with infinitesimals The range of applications includes measure and probability theory stochastic analysis differential equations generalised functions mathematical physics and differential geometry moreover the theory has implications for the teaching of calculus and analysis This volume contains papers touching on all of the above topics as well as a biographical note about Abraham Robinson based on the opening address given by W A J Luxemburg who knew Robinson to the Aveiro conference which

marked the 20th anniversary of Robinson's death. This book will be of particular interest to students and researchers in nonstandard analysis, measure theory, generalised functions and mathematical physics. **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 Västerås, 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. **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.

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