

1. **Introduction**

# Quantized Partial Differential Equations

# Quantized Partial Differential Equations

**S.I. Andersson, H.-D. Doebner**



## **Quantized Partial Differential Equations:**

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**Quantization Methods in the Theory of Differential Equations** Vladimir E. Nazaikinskii, B.-W. Schulze, Boris Yu. Sternin, 2002-05-16 This volume presents a systematic and mathematically rigorous exposition of methods for studying linear partial differential equations It focuses on quantization of the corresponding objects states observables and canonical transformations in the phase space The quantization of all three types of classical objects is carried out in a unified way with the use of a special integral transform This book covers recent as well as established results treated within the framework of a universal approach It also includes applications and provides a useful reference text for graduate and research level readers

**Quantization, PDEs, and Geometry** Dorothea Bahns, Wolfram Bauer, Ingo Witt, 2016-02-11 This book presents four survey articles on different topics in mathematical analysis that are closely linked to concepts and applications in physics Specifically it discusses global aspects of elliptic PDEs Berezin Toeplitz quantization the stability of solitary waves and sub Riemannian geometry The contributions are based on lectures given by distinguished experts at a summer school in Göttingen The authors explain fundamental concepts and ideas and present them clearly Starting from basic notions these course notes take the reader to the point of current research highlighting new challenges and addressing unsolved problems at the interface between mathematics and physics All contributions are of interest to researchers in the respective fields but they are also accessible to graduate students

Quantization, Nonlinear Partial Differential Equations, and Operator Algebra William Arveson, Thomas Branson, Irving Ezra Segal, 1996 This book describes the outstanding recent progress in this important and challenging field and presents general background for the scientific context and specifics regarding key

difficulties Quantization is developed in the context of rigorous nonlinear quantum field theory in four dimensions and in connection with symplectic manifold theory and random Schrödinger operators Nonlinear wave equations are exposed in relation to recent important progress in general relativity in purely mathematical terms of microlocal analysis and as represented by progress on the relativistic Boltzmann equation Most of the developments in this volume appear in book form for the first time The resulting work is a concise and informative way to explore the field and the spectrum of methods available for its investigation

**General Theory of Partial Differential Equations and Microlocal Analysis** Min-You Qi, L. Rodino, 1996-05-20 *Differential Geometry And Its Applications - International Conference* Josef Janyska, Demeter Krupka, 1990-03-01 The proceedings consists of lectures and selected original research papers presented at the conference The contents is divided into 3 parts I Geometric structures II the calculus of variations on manifolds III Geometric methods in physics The volume also covers interdisciplinary areas between differential geometry and mathematical physics like field theory relativity classical and quantum mechanics

**Mathematical Aspects Of Weyl Quantization And Phase** Daniel Abrom Dubin, M A Hennings, Tom B Smith, 2000-06-12 This book analyzes in considerable generality the quantization dequantization integral transform scheme of Weyl and Wigner and considers several phase operator theories It features a thorough treatment of quantization in polar coordinates dequantization by a new method of motives a discussion of Moyal algebras modifications of the transform method to accommodate operator orderings a rigorous discussion of the Dicke laser model for one mode fully quantum in the thermodynamic limit analysis of quantum phase theories based on the Toeplitz operator the coherent state operator the quantized phase space angle and a sequence of finite rank operators

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

**Mathematics of Quantization and Quantum Fields** Jan Dereziński, Christian Gérard, 2023-02-09 This 2013 book now OA offers a definitive review of mathematical aspects of quantization and quantum field theory

Pseudo-Differential Operators Hans G. Feichtinger, Bernard Helffer, Michael Lamoureux, Nicolas Lerner, Joachim Toft, 2009-08-29 Pseudo differential operators were initiated by Kohn Nirenberg and Hörmander in the sixties of the last century Beside applications in the general theory of partial differential equations they have their roots also in the study of quantization first envisaged by Hermann Weyl thirty years earlier Thanks to the understanding of the connections of wavelets with other branches of mathematical analysis quantum physics and engineering such operators have been used under different names as mathematical models in signal analysis since the last decade of the last century The volume

investigates the mathematics of quantization and signals in the context of pseudo differential operators Weyl transforms Daubechies operators Wick quantization and time frequency localization operators Applications to quantization signal analysis and the modern theory of PDE are highlighted

**Quantization on Nilpotent Lie Groups** Veronique Fischer, Michael Ruzhansky, 2016-03-08 This book presents a consistent development of the Kohn Nirenberg type global quantization theory in the setting of graded nilpotent Lie groups in terms of their representations It contains a detailed exposition of related background topics on homogeneous Lie groups nilpotent Lie groups and the analysis of Rockland operators on graded Lie groups together with their associated Sobolev spaces For the specific example of the Heisenberg group the theory is illustrated in detail In addition the book features a brief account of the corresponding quantization theory in the setting of compact Lie groups The monograph is the winner of the 2014 Ferran Sunyer i Balaguer Prize

**Non-linear Partial Differential Operators and Quantization Procedures** S.I. Andersson, H.-D. Doebner, 2006-11-14

Constraint Theory And Quantization Methods: From Relativistic Particles To Field Theory And General Relativity Filippo Colomo, Luca Lusanna, Giuseppe Marmo, 1994-05-27 This second workshop on constraint theory aims at reviewing the developments that have taken place in the theory of singular Lagrangians and Dirac Bergmann Hamiltonian constraints as well as their quantization Since this theory lies behind all special and general relativistic systems the topics covered here naturally range from mathematical physics to relativistic system particles strings and fields and further to general relativity The variety of topics discussed makes this an important interesting and informative book

**Essays in Mathematics and its Applications** Panos M. Pardalos, Themistocles M. Rassias, 2012-08-07 The volume is dedicated to Stephen Smale on the occasion of his 80th birthday Besides his startling 1960 result of the proof of the Poincaré conjecture for all dimensions greater than or equal to five Smale's ground breaking contributions in various fields in Mathematics have marked the second part of the 20th century and beyond Stephen Smale has done pioneering work in differential topology global analysis dynamical systems nonlinear functional analysis numerical analysis theory of computation and machine learning as well as applications in the physical and biological sciences and economics In sum Stephen Smale has manifestly broken the barriers among the different fields of mathematics and dispelled some remaining prejudices He is indeed a universal mathematician Smale has been honored with several prizes and honorary degrees including among others the Fields Medal 1966 The Veblen Prize 1966 the National Medal of Science 1996 and the Wolf Prize 2006 2007

**Geometric Quantization and Quantum Mechanics** Jędrzej Sniatycki, 2012-12-06 This book contains a revised and expanded version of the lecture notes of two seminar series given during the academic year 1976 77 at the Department of Mathematics and Statistics of the University of Calgary and in the summer of 1978 at the Institute of Theoretical Physics of the Technical University Clausthal The aim of the seminars was to present geometric quantization from the point of view of its applications to quantum mechanics and to introduce the quantum dynamics of various physical systems as the result of the geometric

quantization of the classical dynamics of these systems The group representation aspects of geometric quantization as well as proofs of the existence and the uniqueness of the introduced structures can be found in the expository papers of Blattner Kostant Sternberg and Wolf and also in the references quoted in these papers The books of Souriau 1970 and Simms and Woodhouse 1976 present the theory of geometric quantization and its relationship to quantum mechanics The purpose of the present book is to complement the preceding ones by including new developments of the theory and emphasizing the computations leading to results in quantum mechanics

Wave Equations on Lorentzian Manifolds and Quantization

Christian Bär, Nicolas Ginoux, Frank Pfäffle, 2007 This book provides a detailed introduction to linear wave equations on Lorentzian manifolds for vector bundle valued fields After a collection of preliminary material in the first chapter one finds in the second chapter the construction of local fundamental solutions together with their Hadamard expansion The third chapter establishes the existence and uniqueness of global fundamental solutions on globally hyperbolic spacetimes and discusses Green's operators and well posedness of the Cauchy problem The last chapter is devoted to field quantization in the sense of algebraic quantum field theory The necessary basics on C algebras and CCR representations are developed in full detail The text provides a self contained introduction to these topics addressed to graduate students in mathematics and physics At the same time it is intended as a reference for researchers in global analysis general relativity and quantum field theory

*Mathematics Without Boundaries* Panos M. Pardalos, Themistocles M. Rassias, 2014-09-16 This volume consists of chapters written by eminent scientists and engineers from the international community and present significant advances in several theories methods and applications of an interdisciplinary research These contributions focus on both old and recent developments of Global Optimization Theory Convex Analysis Calculus of Variations Discrete Mathematics and Geometry as well as several applications to a large variety of concrete problems including applications of computers to the study of smoothness and analyticity of functions applications to epidemiological diffusion networks mathematical models of elastic and piezoelectric fields optimal algorithms stability of neutral type vector functional differential equations sampling and rational interpolation for non band limited signals recurrent neural network for convex optimization problems and experimental design The book also contains some review works which could prove particularly useful for a broader audience of readers in Mathematical and Engineering subjects and especially to graduate students who search for the latest information

**Mathematical Quantization** Nik Weaver, 2001-05-31 With a unique approach and presenting an array of new and intriguing topics Mathematical Quantization offers a survey of operator algebras and related structures from the point of view that these objects are quantizations of classical mathematical structures This approach makes possible with minimal mathematical detail a unified treatment of a

**Born-Jordan Quantization** Maurice A. de Gosson, 2016-01-11 This book presents a comprehensive mathematical study of the operators behind the Born Jordan quantization scheme The Schrödinger and Heisenberg pictures of quantum mechanics are equivalent only if the Born Jordan scheme is used Thus Born

Jordan quantization provides the only physically consistent quantization scheme as opposed to the Weyl quantization commonly used by physicists. In this book we develop Born Jordan quantization from an operator theoretical point of view and analyze in depth the conceptual differences between the two schemes. We discuss various physically motivated approaches in particular the Feynman integral point of view. One important and intriguing feature of Born Jordan quantization is that it is not one to one: there are infinitely many classical observables whose quantization is zero.

## **Quantized Partial Differential Equations** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Quantized Partial Differential Equations**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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