Progress in Physics

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Group-Theoretical Methods for Integration of Nonlinear Dynamical Systems

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Group Theoretical Methods For Integration Of Nonlinear Dynamical Systems

Carlo Cercignani,Gilberto M. Kremer

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Group-Theoretical Methods for Integration of Nonlinear Dynamical Systems Andrei N. Leznov,Mikhail V. Saveliev,2012-12-06 The book reviews a large number of 1 and 2 dimensional equations that describe nonlinear phenomena in various areas of modern theoretical and mathematical physics It is meant above all for physicists who specialize in the field

theory and physics of elementary particles and plasma for mathe maticians dealing with nonlinear differential equations differential geometry and algebra and the theory of Lie algebras and groups and their representa tions and for students and post graduates in these fields We hope that the book will be useful also for experts in hydrodynamics solid state physics nonlinear optics electrophysics biophysics and physics of the Earth The first two chapters of the book present some results from the repre sentation theory of Lie groups and Lie algebras and their counterpart on supermanifolds in a form convenient in what follows They are addressed to those who are interested in integrable systems but have a scanty vocabulary in the language of representation theory The experts may refer to the first two chapters only occasionally As we wanted to give the reader an opportunity not only to come to grips with the problem on the ideological level but also to integrate her or his own concrete nonlinear equations without reference to the literature we had to expose in a self contained way the appropriate parts of the representation theory from a particular point of view Lie Algebras, Geometry, and Toda-Type Systems Alexander Vitalievich Razumov,Mikhail V. Saveliev,1997-05-15 The book describes integrable Toda type systems and their Lie algebra and differential geometry background *The Complex WKB Method for Nonlinear Equations I* Victor P. Maslov,2012-12-06 When this book was first published in Russian it proved to become the fountainhead of a major stream of important papers in mathematics physics and even chemistry indeed it formed the basis of new methodology and opened new directions for research The present English edition includes new examples of applications to physics hitherto unpublished or available only in Russian Its central mathematical idea is to use topological methods to analyze isotropic invariant manifolds in order to obtain asymptotic series of eigenvalues and eigenvectors for the multi dimensional Schr dinger equation and also to take into account the so called tunnel effects Finite dimensional linear theory is reviewed in detail Infinite dimensional linear theory and its applications to quantum statistics and quantum field theory as well as the nonlinear theory involving instantons will be considered in a second volume **Topics in Quantum Mechanics** Floyd Williams,2012-12-06 Quantum mechanics and quantum field theory are highly successful physical theo ries that have numerous practical applications Largely mathematical in character these theories continue to stimulate the imaginations of applied mathematicians and purists as weIl In recent years in particular as a new array of tools have emerged including a representative amount from the domain of so called pure mathematics interest in both the conceptual and physical aspects of these beau tiful subjects has especially blossomed Given the emergence of newer and of ten spectacular applications of mathematics to quantum theory and to theoretical physics in general one notes that certain communication gaps between physicists and mathematicians continue to be bridged This text on quantum mechanics designed primarily for mathematics students and researchers is an attempt to bridge further gaps Although the mathematical style presented is generally precise it is counterbalanced at some points by a re laxation of precision as our overall purpose is to capture the basic fiavor of the subject both formally and intuitively The approach is one in which we attempt to maintain sensitivity with respect to diverse backgrounds of the

readers including those with modest backgrounds in physics Thus we have included several con crete computational examples to fortify stated principles several appendices and certain basic physical concepts that help to provide for a reasonably self contained account of the material especially in the first 11 chapters **A Geometric Approach to Thermomechanics of Dissipating Continua** Lalao Rakotomanana,2012-09-08 Across the centuries the development and growth of mathematical concepts have been strongly stimulated by the needs of mechanics Vector algebra was developed to describe the equilibrium of force systems and originated from Stevin s experiments 1548 1620 Vector analysis was then introduced to study velocity fields and force fields Classical dynamics required the differential calculus developed by Newton 1687 Nevertheless the concept of particle acceleration was the starting point for introducing a structured spacetime Instantaneous velocity involved the set of particle positions in space Vector algebra theory was not sufficient to compare the different velocities of a particle in the course of time There was a need to parallel transport these velocities at a single point before any vector algebraic operation The appropriate mathematical structure for this transport was the connection I The Euclidean connection derived from the metric tensor of the referential body was the only connection used in mechanics for over two centuries Then major steps in the evolution of spacetime concepts were made by Einstein in 1905 special relativity and 1915 general relativity by using Riemannian connection Slightly later nonrelativistic spacetime which includes the main features of general relativity I It took about one and a half centuries for connection theory to be accepted as an independent theory in mathematics Major steps for the connection concept are attributed to a series of findings Riemann 1854 Christoffel 1869 Ricci 1888 Levi Civita 1917 WeyJ 1918 Cartan 1923 Eshermann 1950 **Geometric Phases in Classical and Quantum Mechanics** Dariusz Chruscinski,Andrzej Jamiolkowski,2012-12-06 Several well established geometric and topological methods are used in this work in an application to a beautiful physical phenomenon known as the geometric phase This book examines the geometric phase bringing together different physical phenomena under a unified mathematical scheme The material is presented so that graduate students and researchers in applied mathematics and physics with an understanding of classical and quantum mechanics can handle the text **Dynamical Systems VII** V.I. Arnol'd,S.P. Novikov,2013-12-14 A collection of five surveys on dynamical systems indispensable for graduate students and researchers in mathematics and theoretical physics Written in the modern language of differential geometry the book covers all the new differential geometric and Lie algebraic methods currently used in the theory of integrable systems *Group-theoretic Methods for Integration of Nonlinear Dynamical Systems* A.N. Leznov,1992 **The Relativistic Boltzmann Equation: Theory and Applications** Carlo Cercignani,Gilberto M. Kremer,2012-12-06 The aim of this book is to present the theory and applications of the relativistic Boltzmann equation in a self contained manner even for those readers who have no familiarity with special and general relativity Though an attempt is made to present the basic concepts in a complete fashion the style of presentation is chosen to be appealing to readers who want to understand how kinetic theory is used for explicit calculations

The book will be helpful not only as a textbook for an advanced course on relativistic kinetic theory but also as a reference for physicists astrophysicists and applied mathematicians who are interested in the theory and applications of the relativistic Boltzmann equation **The Kepler Problem** Bruno Cordani,2003 Accompanying CD ROM contains Microsoft Windows program Kepler which calculates the effects of any perturbation of the Kepler problem and plots the resulting trajectories

Continuum Thermomechanics Alfredo Bermúdez de Castro,2005-06-16 The general goal of this book is to deduce rigorously from the first principles the partial differential equations governing the thermodynamic processes undergone by continuum media under forces and heat Solids and fluids are considered in a unified framework Reacting mixtures of fluids are also included for which general notions of thermodynamics are recalled such as the Gibbs equilibrium theory Linear approximate models are mathematically obtained by calculating the derivatives of the constitutive response functions They include the classical models for linear vibrations of thermoelastic solids and also for wave propagation in fluids dissipative and non dissipative acoustics and internal gravity waves Homogenization of Partial Differential Equations Vladimir A. Marchenko,Evgueni Ya. Khruslov,2008-12-22 Homogenization is a method for modeling processes in microinhomogeneous media which are encountered in radiophysics filtration theory rheology elasticity theory and other domains of mechanics physics and technology These processes are described by PDEs with rapidly oscillating coefficients or boundary value problems in domains with complex microstructure From the technical point of view given the complexity of these processes the best techniques to solve a wide variety of problems involve constructing appropriate macroscopic homogenized models The present monograph is a comprehensive study of homogenized problems based on the asymptotic analysis of boundary value problems as the characteristic scales of the microstructure decrease to zero The work focuses on the construction of nonstandard models non local models multicomponent models and models with memory Along with complete proofs of all main results numerous examples of typical structures of microinhomogeneous media with their corresponding homogenized models are provided Graduate students applied mathematicians physicists and engineers will benefit from this monograph which may be used in the classroom or as a comprehensive reference text **Soliton Equations and Their Algebro-Geometric Solutions: Volume 2, (1+1)-Dimensional Discrete Models** Fritz Gesztesy,Helge Holden,Johanna Michor,Gerald Teschl,2008-09-04 As a partner to Volume 1 Dimensional Continuous Models this monograph provides a self contained introduction to algebro geometric solutions of completely integrable nonlinear partial differential difference equations also known as soliton equations The systems studied in this volume include the Toda lattice hierarchy the Kac van Moerbeke hierarchy and the Ablowitz Ladik hierarchy An extensive treatment of the class of algebro geometric solutions in the stationary as well as time dependent contexts is provided The theory presented includes trace formulas algebro geometric initial value problems Baker Akhiezer functions and theta function representations of all relevant quantities involved The book uses basic techniques from the theory of difference equations and spectral analysis some elements of

algebraic geometry and especially the theory of compact Riemann surfaces The presentation is constructive and rigorous with ample background material provided in various appendices Detailed notes for each chapter together with an exhaustive bibliography enhance understanding of the main results *MathPhys Odyssey 2001* Masaki Kashiwara,Tetsuji Miwa,2002-05-24 MathPhys Odyssey 2001 will serve as an excellent reference text for mathematical physicists and graduate students in a number of areas Kashiwara Miwa have a good track record with both SV and Birkhauser Ninth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation & Relativistic Field Theories (In 3 Volumes) - Procs Of The Mgix Mm Meeting Vahe G Gurzadyan,Robert T Jantzen,Remo Ruffini,2002-12-12 In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent advances in gravitation general relativity and relativistic field theories In these meetings which are held once every three years every aspect of research is emphasized mathematical foundations physical predictions and numerical and experimental investigations The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space time and to review the status of both the ground based and the space based experiments aimed at testing the theory of gravitation The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee The first two meetings MG1 and MG2 were held in Trieste 1975 1979 A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so called Cultural Revolution Three years later MG4 was held in Rome 1985 It was at MG4 that astroparticle physics was born MGIXMM was organized by the International Organizing Committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries MGIXMM was attended by 997 scientists of 69 nationalities It took place on 2 8 July 2000 at the University of Rome Italy The scientific programs included 60 plenary and review talks as well as talks in 88 parallel sessions The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics which is becoming one of the priorities in scientific endeavour The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium The Marcel Grossmann Individual Awards for this meeting were presented to Cecille and Bryce DeWitt Riccardo Giacconi and Roger Penrose while the Institutional Award went to the Solvay Institute accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine The acceptance speeches are also included in the proceedings *The Ninth Marcel Grossman Meeting (MGIXMM)* Robert T. Jantzen,Remo Ruffini,Vahe G. Gurzadyan,2002-12-01 In 1975 the Marcel Grossmann Meetings were established by Remo Ruffini and Abdus Salam to provide a forum for discussion of recent

advances in gravitation general relativity and relativistic field theories In these meetings which are held once every three years every aspect of research is emphasized mathematical foundations physical predictions and numerical and experimental investigations The major objective of these meetings is to facilitate exchange among scientists so as to deepen our understanding of the structure of space time and to review the status of both the ground based and the space based experiments aimed at testing the theory of gravitation The Marcel Grossmann Meetings have grown under the guidance of an International Organizing Committee and a large International Coordinating Committee The first two meetings MG1 and MG2 were held in Trieste 1975 1979 A most memorable MG3 1982 was held in Shanghai and represented the first truly international scientific meeting in China after the so called Cultural Revolution Three years later MG4 was held in Rome 1985 It was at MG4 that astroparticle physics was born MGIXMM was organized by the International Organizing Committee composed of D Blair Y Choquet Bruhat D Christodoulou T Damour J Ehlers F Everitt Fang Li Zhi S Hawking Y Ne eman R Ruffini chair H Sato R Sunyaev and S Weinberg Essential to the organization was an International Coordinating Committee of 135 members from scientific institutions of 54 countries MGIXMM was attended by 997 scientists of 69 nationalities It took place on 2 8 July 2000 at the University of Rome Italy The scientific programs included 60 plenary and review talks as well as talks in 88 parallel sessions The three volumes of the proceedings of MGIXMM present a rather authoritative view of relativistic astrophysics which is becoming one of the priorities in scientific endeavour The papers appearing in these volumes cover all aspects of gravitation from mathematical issues to recent observations and experiments Their intention is to give a complete picture of our current understanding of gravitational theory at the turn of the millennium The Marcel Grossmann Individual Awards for this meeting were presented to Cecille and Bryce DeWitt Riccardo Giacconi and Roger Penrose while the Institutional Award went to the Solvay Institute accepted on behalf of the Institute by Jacques Solvay and Ilya Prigogine The acceptance speeches are also included in the proceedings Algebraic Structures In Integrability: Foreword By Victor Kac Vladimir V Sokolov,2020-06-05 Relationships of the theory of integrable systems with various branches of mathematics are extremely deep and diverse On the other hand the most fundamental exactly integrable systems often have applications in theoretical physics Therefore many mathematicians and physicists are interested in integrable models The book is intelligible to graduate and PhD students and can serve as an introduction to separate sections of the theory of classical integrable systems for scientists with algebraic inclinations For the young the book can serve as a starting point in the study of various aspects of integrability while professional algebraists will be able to use some examples of algebraic structures which appear in the theory of integrable systems for wide ranging generalizations The statements are formulated in the simplest possible form However some ways of generalization are indicated In the proofs only essential points are mentioned while for technical details references are provided The focus is on carefully selected examples In addition the book proposes many unsolved problems of various levels of complexity A deeper understanding of every chapter

of the book may require the study of more rigorous and specialized literature

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