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Nonlinear Poisson Brackets
Geometry and Quantization

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American Mathematical Society

Nonlinear Poisson Brackets Geometry And Quantization

Yoshiaki Maeda,Hideki Omori,Alan Weinstein

Nonlinear Poisson Brackets Geometry And Quantization:

Nonlinear Poisson Brackets Mikhail Vladimirovich Karasev,V. P. Maslov,1993 This book deals with two old mathematical problems The first is the problem of constructing an analog of a Lie group for general nonlinear Poisson brackets The second is the quantization problem for such brackets in the semiclassical approximation which is the problem of exact quantization for the simplest classes of brackets These problems are progressively coming to the fore in the modern theory of differential equations and quantum theory since the approach based on constructions of algebras and Lie groups seems in a certain sense to be exhausted The authors main goal is to describe in detail the new objects that appear in the solution of these problems Many ideas of algebra modern differential geometry algebraic topology and operator theory are synthesized here The authors prove all statements in detail thus making the book accessible to graduate students

Nonlinear Poisson Brackets Mihail Vladimirovi_ Karasev,Viktor Pavlovi_ Maslov,American Mathematical Society,2012-06-06 This book deals with two old mathematical problems The first is the problem of constructing an analog of a Lie group for general nonlinear Poisson brackets The second is the quantization problem for such brackets in the semiclassical approximation which is the problem of exact quantization for the simplest classes of brackets These problems are progressively coming to the fore in the modern theory of differential equations and quantum theory since the approach based on constructions of algebras and Lie groups seems in a certain sense to be exhausted The authors main goal is to describe in detail the new objects that appear in the solution of these problems Many ideas of algebra modern differential geometry algebraic topology and operator theory are synthesized here The authors prove all statements in detail thus making the book accessible to graduate students *Nonlinear Poisson Brackets* Mikhail Vladimirovich Karasev,M. V. KARASEV;V. P. MASLOV., This book deals with two old mathematical problems The first is the problem of constructing an analog of a Lie group for general nonlinear Poisson brackets The second is the quantization problem for such brackets in the semiclassical approximation which is the problem of exact quantization for the simplest classes of brackets These problems are progressively coming to the fore in the modern theory of differential equations and quantum theory since the approach based on constructions of algebras and Lie groups seems in a certain sense to be exhausted The authors main goal is to descri

Symplectic Geometry and Quantization Yoshiaki Maeda,Hideki Omori,Alan Weinstein,1994 This volume contains a state of the art discussion of recent progress in a range of related topics in symplectic geometry and mathematical physics including symplectic groupoids geometric quantization noncommutative differential geometry equivariant cohomology deformation quantization topological quantum field theory and knot invariants **Coherent Transform, Quantization and Poisson Geometry** Mikhail Vladimirovich Karasev,1998 Three papers continue and substantially develop the authors previous results about nonlinear Poisson brackets Hamilton dynamics and quantization essentially summarizing some new ideas and approaches suggested during a research seminar over the previous five years at the Moscow Institute of

Electronics and Mathematics The papers are Non Lie permutation representations coherent states and quantum embedding Adapted connections Hamilton dynamics geometric phases and quantization over isotropic submanifolds and Infinitesimal Poisson cohomology No index Annotation copyrighted by Book News Inc Portland OR Lectures on the Geometry of Quantization Sean Bates,Alan Weinstein,1997 These notes are based on a course entitled Symplectic Geometry and Geometric Quantization taught by Alan Weinstein at the University of California Berkeley fall 1992 and at the Centre Emile Borel spring 1994 The only prerequisite for the course needed is a knowledge of the basic notions from the theory of differentiable manifolds differential forms vector fields transversality etc The aim is to give students an introduction to the ideas of microlocal analysis and the related symplectic geometry with an emphasis on the role these ideas play in formalizing the transition between the mathematics of classical dynamics hamiltonian flows on symplectic manifolds and quantum mechanics unitary flows on Hilbert spaces These notes are meant to function as a guide to the literature The authors refer to other sources for many details that are omitted and can be bypassed on a first reading **Quantum Algebras and Poisson Geometry in Mathematical Physics** Mikhail Vladimirovich Karasev,Elena M. Novikova,Yurii Mikhailovich Vorobjev,2005 This collection presents new and interesting applications of Poisson geometry to some fundamental well known problems in mathematical physics In addition to advanced Poisson geometry the methods used by the authors include unexpected algebras with non Lie commutation relations nontrivial quantum Kahlerian structures of hypergeometric type dynamical systems theory semiclassical asymptotics and more The volume is suitable for graduate students and researchers interested in mathematical physics Other AMS publications by M Karasev include Nonlinear Poisson Brackets Geometry and Quantization Coherent Transform Quantization and Poisson Geometry and Asymptotic Methods for Wave and Quantum Problems *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 **Geometric Models for Noncommutative Algebras** Ana Cannas da Silva,Alan Weinstein,1999 The volume is based on a course Geometric Models for Noncommutative Algebras taught by Professor Weinstein at Berkeley Noncommutative geometry is the study of noncommutative algebras as if they were algebras of functions on spaces for example the commutative algebras associated to affine algebraic varieties differentiable manifolds topological spaces and measure spaces In this work the authors discuss several types of geometric objects in the usual sense of sets with structure that are closely related to noncommutative algebras Central to the discussion are symplectic and Poisson manifolds which

arise when noncommutative algebras are obtained by deforming commutative algebras The authors also give a detailed study of groupoids whose role in noncommutative geometry has been stressed by Connes as well as of Lie algebroids the infinitesimal approximations to differentiable groupoids Featured are many interesting examples applications and exercises The book starts with basic definitions and builds to still open questions It is suitable for use as a graduate text An extensive bibliography and index are included Asymptotic Methods for Wave and Quantum Problems M. V. Karasev,2003 The collection consists of four papers in different areas of mathematical physics united by the intrinsic coherence of the asymptotic methods used The papers describe both the known results and most recent achievements as well as new concepts and ideas in mathematical analysis of quantum and wave problems In the introductory paper Quantization and Intrinsic Dynamics a relationship between quantization of symplectic manifolds and nonlinear wave equations is described and discussed from the viewpoint of the weak asymptotics method asymptotics in distributions and the semiclassical approximation method It also explains a hidden dynamic geometry that arises when using these methods Three other papers discuss applications of asymptotic methods to the construction of wave type solutions of nonlinear PDE s to the theory of semiclassical approximation in particular the Whitham method for nonlinear second order ordinary differential equations and to the study of the Schrodinger type equations whose potential wells are sufficiently shallow that the discrete spectrum contains precisely one point All the papers contain detailed references and are oriented not only to specialists in asymptotic methods but also to a wider audience of researchers and graduate students working in partial differential equations and mathematical physics **Multiple Facets of Quantization and Supersymmetry** M. A. Olshanetsky,Arkady Vainshtein,2002 This book is dedicated to the memory of Michael Marinov the theorist who together with Felix Berezin introduced the classical description of spin by anticommuting Grassmann variables The Volume contains original papers and reviews of physicists and mathematicians written specifically for this book These articles reflect the current status and recent developments in the areas of Marinov s research interests quantum tunneling quantization of constrained systems supersymmetry and others Included personal recollections portray a human face of Michael Marinov a person of great knowledge and integrity Nonlinear Dynamics of Rotating Shallow Water: Methods and Advances ,2007-04-03 The rotating shallow water RSW model is of wide use as a conceptual tool in geophysical fluid dynamics GFD because in spite of its simplicity it contains all essential ingredients of atmosphere and ocean dynamics at the synoptic scale especially in its two or multi layer version The book describes recent advances in understanding in the framework of RSW and related models of some fundamental GFD problems such as existence of the slow manifold dynamical splitting of fast inertia gravity waves and slow vortices Rossby waves motions nonlinear geostrophic adjustment and wave emission the role of essentially nonlinear wave phenomena The specificity of the book is that analytical numerical and experimental approaches are presented together and complement each other Special attention is paid on explaining the methodology e g multiple time scale asymptotic

expansions averaging and removal of resonances in what concerns theory high resolution finite volume schemes in what concerns numerical simulations and turntable experiments with stratified fluids in what concerns laboratory simulations A general introduction into GFD is given at the beginning to introduce the problematics for non specialists At the same time recent new results on nonlinear geostrophic adjustment nonlinear waves and equatorial dynamics including some exact results on the existence of the slow manifold wave breaking and nonlinear wave solutions are presented for the first time in a systematic manner Incorporates analytical numerical and experimental approaches in the geophysical fluid dynamics context Combination of essentials in GFD of the description of analytical numerical and experimental methods tutorial part and new results obtained by these methods original part Provides the link between GFD and mechanics averaging method the method of normal forms GFD and nonlinear physics shocks solitons modons anomalous transport periodic nonlinear waves

Tangents and Secants of Algebraic Varieties F. L. Zak,1993 The book is devoted to geometry of algebraic varieties in projective spaces Among the objects considered in some detail are tangent and secant varieties Gauss maps dual varieties hyperplane sections projections and varieties of small codimension Emphasis is made on the study of interplay between irregular behavior of higher secant varieties and irregular tangencies to the original variety Classification of varieties with unusual tangential properties yields interesting examples many of which arise as orbits of representations of algebraic groups ABSTRACT *Introduction to Complex Analysis* Junjiro Noguchi,2008-04-09 This book describes a classical introductory part of complex analysis for university students in the sciences and engineering and could serve as a text or reference book It places emphasis on rigorous proofs presenting the subject as a fundamental mathematical theory The volume begins with a problem dealing with curves related to Cauchy s integral theorem To deal with it rigorously the author gives detailed descriptions of the homotopy of plane curves Since the residue theorem is important in both pure and applied mathematics the author gives a fairly detailed explanation of how to apply it to numerical calculations this should be sufficient for those who are studying complex analysis as a tool **Characters of Finite Groups** I_A. G. Berkovich,E. M. Zhmud_,1998-09-29 This book places character theory and its applications to finite groups within the reach of people with a comparatively modest mathematical background The work concentrates mostly on applications of character theory to finite groups The main themes are degrees and kernels of irreducible characters the class number and the number of nonlinear irreducible characters values of irreducible characters characterizations and generalizations of Frobenius groups and generalizations of monomial groups The presentation is detailed and many proofs of known results are new **Probability Theory** Anatoli_ I_A_kovlevich Dorogovt_s_ev,A. Ya. Dorogovtsev,D. S. Silvestrov,A. V. Skorokhod,M. I. Yadrenko,2011-06-21 This book of problems is intended for students in pure and applied mathematics There are problems in traditional areas of probability theory and problems in the theory of stochastic processes which has wide applications in the theory of automatic control queuing and reliability theories and in many other modern science and engineering fields Answers to most of the

problems are given and the book provides hints and solutions for more complicated problems *Control of Systems with Aftereffect* Vladimir Borisovich Kolmanovskiĭ,Leonid Efimovich Shaĭkhet,1996-01-01 Deterministic and stochastic control systems with aftereffect are considered Necessary and sufficient conditions for the optimality of such systems are obtained Various methods for the construction of exact and approximate solutions of optimal control problems are suggested Problems of adaptive control for systems with aftereffect are analyzed Numerous applications are described The book can be used by researchers engineers and graduate students working in optimal control theory and various applications *Identities of Algebras and their Representations* I□U□riĭ Pitrimovich Razmyslov,1994 During the past forty years a new trend in the theory of associative algebras Lie algebras and their representations has formed under the influence of mathematical logic and universal algebra namely the theory of varieties and identities of associative algebras Lie algebras and their representations The last twenty years have seen the creation of the method of 2 words and alpha functions which allowed a number of problems in the theory of groups rings Lie algebras and their representations to be solved in a unified way The possibilities of this method are far from exhausted This book sums up the applications of the method of 2 words and alpha functions in the theory of varieties and gives a systematic exposition of contemporary achievements in the theory of identities of algebras and their representations closely related to this method The aim is to make these topics accessible to a wider group of mathematicians *Discreteness and Continuity in Problems of Chaotic Dynamics* Michael L. Blank,1997-01-01 This book presents the study of ergodic properties of so called chaotic dynamical systems One of the central topics is the interplay between deterministic and quasi stochastic behaviour in chaotic dynamics and between properties of continuous dynamical systems and those of their discrete approximations Using simple examples the author describes the main phenomena known in chaotic dynamical systems studying topics such as the operator approach in chaotic dynamics stochastic stability and the so called coupled systems The last two chapters are devoted to problems of numerical modeling of chaotic dynamics

Infinite-Dimensional Lie Groups Hideki Omori,2017-11-07 This book develops from the viewpoint of abstract group theory a general theory of infinite dimensional Lie groups involving the implicit function theorem and the Frobenius theorem Omori treats as infinite dimensional Lie groups all the real primitive infinite transformation groups studied by E Cartan The book discusses several noncommutative algebras such as Weyl algebras and algebras of quantum groups and their automorphism groups The notion of a noncommutative manifold is described and the deformation quantization of certain algebras is discussed from the viewpoint of Lie algebras This edition is a revised version of the book of the same title published in Japanese in 1979

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Table of Contents Nonlinear Poisson Brackets Geometry And Quantization

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