Juan J. Morales Ruiz

Differential Galois Theory and Non-Integrability of Hamiltonian Systems

Differential Galois Theory And Non Integrability Of Hamiltonian Systems Modern Birkhuser Classics

Huangqi Zhang

Differential Galois Theory And Non Integrability Of Hamiltonian Systems Modern Birkhuser Classics:
   Differential Galois Theory and Non-Integrability of Hamiltonian Systems Juan J. Morales Ruiz,2012-12-06 This book is devoted to the relation between two different concepts of integrability the complete integrability of complex analytical Hamiltonian systems and the integrability of complex analytical linear differential equations For linear differential equations integrability is made precise within the framework of differential Galois theory The connection of these two integrability notions is given by the variational equation i e linearized equation along a particular integral curve of the Hamiltonian system The underlying heuristic idea which motivated the main results presented in this monograph is that a necessary condition for the integrability of a Hamiltonian system is the integrability of the variational equation along any of its particular integral curves This idea led to the algebraic non integrability criteria for Hamiltonian systems These criteria can be considered as generalizations of classical non integrability results by Poincar and Lyapunov as well as more recent results by Ziglin and Yoshida Thus by means of the differential Galois theory it is not only possible to understand all these approaches in a unified way but also to improve them Several important applications are also included homogeneous potentials Bianchi IX cosmological model three body problem H non Heiles system etc The book is based on the original joint research of the author with J M Peris J P Ramis and C Sim but an effort was made to present these achievements in their logical order rather than their historical one The necessary background on differential Galois theory and Hamiltonian systems is included and several new problems and conjectures which open new lines of research are proposed The book is an excellent introduction to non integrability methods in Hamiltonian mechanics and brings the reader to the forefront of research in the area The inclusion of a large number of worked out examples many of wide applied interest is commendable There are many historical references and an extensive bibliography Mathematical Reviews For readers already prepared in the two prerequisite subjects differential Galois theory and Hamiltonian dynamical systems the author has provided a logically accessible account of a remarkable interaction between differential algebra and dynamics Zentralblatt MATH

   Differential Galois Theory through Riemann-Hilbert Correspondence Jacques Sauloy,2016-12-07 Differential Galois theory is an important fast developing area which appears more and more in graduate courses since it mixes fundamental objects from many different areas of mathematics in a stimulating context For a long time the dominant approach usually called Picard Vessiot Theory was purely algebraic This approach has been extensively developed and is well covered in the literature An alternative approach consists in tagging algebraic objects with transcendental information which enriches the understanding and brings not only new points of view but also new solutions It is very powerful and can be applied in situations where the Picard Vessiot approach is not easily extended This book offers a hands on transcendental approach to differential Galois theory based on the Riemann Hilbert correspondence Along the way it provides a smooth down to earth introduction to algebraic geometry category theory and tannakian duality Since the book studies only complex analytic linear

differential equations the main prerequisites are complex function theory linear algebra and an elementary knowledge of groups and of polynomials in many variables A large variety of examples exercises and theoretical constructions often via explicit computations offers first year graduate students an accessible entry into this exciting area   Proceedings of the Workshop Contemporary Geometry and Related Topics Neda Bokan,2004 Readership Researchers in geometry topology nonlinear science and dynamical systems   **Contemporary Geometry And Related Topics, Proceedings Of The Workshop** Neda Bokan,Mirjana Djoric,Anatoly T Fomenko,Zoran Rakic,Julius Wess,2004-03-15 This volume covers a broad range of subjects in modern geometry and related branches of mathematics physics and computer science Most of the papers show new interesting results in Riemannian geometry homotopy theory theory of Lie groups and Lie algebras topological analysis integrable systems quantum groups and noncommutative geometry There are also papers giving overviews of the recent achievements in some special topics such as the Willmore conjecture geodesic mappings Weyl s tube formula and integrable geodesic flows This book provides a great chance for interchanging new results and ideas in multidisciplinary studies The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences   *Progress in Nonlinear Science* Lev M. Lerman,2002   **Mathematical Reviews** ,2003   Hamiltonian Systems and Their Integrability Mich'le Audin,2008 Hamiltonian systems began as a mathematical approach to the study of mechanical systems As the theory developed it became clear that the systems that had a sufficient number of conserved quantities enjoyed certain remarkable properties These are the completely integrable systems In time a rich interplay arose between integrable systems and other areas of mathematics particularly topology geometry and group theory This book presents some modern techniques in the theory of integrable systems viewed as variations on the theme of action angle coordinates These techniques include analytical methods coming from the Galois theory of differential equations as well as more classical algebro geometric methods related to Lax equations Audin has included many examples and exercises Most of the exercises build on the material in the text None of the important proofs have been relegated to the exercises Many of the examples are classical rather than abstract This book would be suitable for a graduate course in Hamiltonian systems   Hamiltonian Methods in the Theory of Solitons Ludwig Faddeev,Leon Takhtajan,2007-08-10 This book presents the foundations of the inverse scattering method and its applications to the theory of solitons in such a form as we understand it in Leningrad The concept of solitonwas introduced by Kruskal and Zabusky in 1965 A soliton a solitary wave is a localized particle like solution of a nonlinear equation which describes excitations of finite energy and exhibits several characteristic features propagation does not destroy the profile of a solitary wave the interaction of several solitary waves amounts to their elastic scat tering so that their total number and shape are preserved Occasionally the concept of the soliton is treated in a more general sense as a localized solu tion of finite energy At present this concept is widely spread due to its universality and the abundance of applications in the analysis of various processes in nonlinear

media The inverse scattering method which is the mathematical basis of soliton theory has developed into a powerful tool of mathematical physics for studying nonlinear partial differential equations almost as vigoraus as the Fourier transform The book is based on the Hamiltonian interpretation of the method hence the title Methods of differential geometry and Hamiltonian formal ism in particular are very popular in modern mathematical physics It is precisely the general Hamiltonian formalism that presents the inverse scat tering method in its most elegant form Moreover the Hamiltonian formal ism provides a link between classical and quantum mechanics *Symmetries, Topology and Resonances in Hamiltonian Mechanics* Valerij V. Kozlov,2012-12-06 John Hornstein has written about the author s theorem on nonintegrability of geodesic flows on closed surfaces of genus greater than one Here is an example of how differential geometry differential and algebraic topology and Newton s laws make music together Amer Math Monthly November 1989 Kozlov s book is a systematic introduction to the problem of exact integration of equations of dynamics The key to the solution is to find nontrivial symmetries of Hamiltonian systems After Poincar s work it became clear that topological considerations and the analysis of resonance phenomena play a crucial role in the problem on the existence of symmetry fields and nontrivial conservation laws *Introduction to Hamiltonian Dynamical Systems and the N-Body Problem* Kenneth R. Meyer,Daniel C. Offin,2017-05-04 This third edition text provides expanded material on the restricted three body problem and celestial mechanics With each chapter containing new content readers are provided with new material on reduction orbifolds and the regularization of the Kepler problem all of which are provided with applications The previous editions grew out of graduate level courses in mathematics engineering and physics given at several different universities The courses took students who had some background in differential equations and lead them through a systematic grounding in the theory of Hamiltonian mechanics from a dynamical systems point of view This text provides a mathematical structure of celestial mechanics ideal for beginners and will be useful to graduate students and researchers alike Reviews of the second edition The primary subject here is the basic theory of Hamiltonian differential equations studied from the perspective of differential dynamical systems The N body problem is used as the primary example of a Hamiltonian system a touchstone for the theory as the authors develop it This book is intended to support a first course at the graduate level for mathematics and engineering students It is a well organized and accessible introduction to the subject This is an attractive book William J Satzer The Mathematical Association of America March 2009 The second edition of this text infuses new mathematical substance and relevance into an already modern classic and is sure to excite future generations of readers This outstanding book can be used not only as an introductory course at the graduate level in mathematics but also as course material for engineering graduate students it is an elegant and invaluable reference for mathematicians and scientists with an interest in classical and celestial mechanics astrodynamics physics biology and related fields Marian Gidea Mathematical Reviews Issue 2010 d Normal Forms and Stability of Hamiltonian Systems Hildeberto E. Cabral,Lúcia Brandão Dias,2023-08-11 This book

introduces the reader to the study of Hamiltonian systems focusing on the stability of autonomous and periodic systems and expanding to topics that are usually not covered by the canonical literature in the field It emerged from lectures and seminars given at the Federal University of Pernambuco Brazil known as one of the leading research centers in the theory of Hamiltonian dynamics This book starts with a brief review of some results of linear algebra and advanced calculus followed by the basic theory of Hamiltonian systems The study of normal forms of Hamiltonian systems is covered by Ch 3 while Chapters 4 and 5 treat the normalization of Hamiltonian matrices Stability in non linear and linear systems are topics in Chapters 6 and 7 This work finishes with a study of parametric resonance in Ch 8 All the background needed is presented from the Hamiltonian formulation of the laws of motion to the application of the Krein Gelfand Lidskii theory of strongly stable systems With a clear self contained exposition this work is a valuable help to advanced undergraduate and graduate students and to mathematicians and physicists doing research on this topic   Hamiltonian Systems with Three or More Degrees of Freedom Carles Simó,1999-06-30 A survey of current knowledge about Hamiltonian systems with three or more degrees of freedom and related topics The Hamiltonian systems appearing in most of the applications are non integrable Hence methods to prove non integrability results are presented and the different meaning attributed to non integrability are discussed For systems near an integrable one it can be shown that under suitable conditions some parts of the integrable structure most of the invariant tori survive Many of the papers discuss near integrable systems From a topological point of view some singularities must appear in different problems either caustics geodesics moving wavefronts etc This is also related to singularities in the projections of invariant objects and can be used as a signature of these objects Hyperbolic dynamics appear as a source on unpredictable behaviour and several mechanisms of hyperbolicity are presented The destruction of tori leads to Aubrey Mather objects and this is touched on for a related class of systems Examples without periodic orbits are constructed against a classical conjecture Other topics concern higher dimensional systems either finite networks and localised vibrations on them or infinite like the quasiperiodic Schr dinger operator or nonlinear hyperbolic PDE displaying quasiperiodic solutions Most of the applications presented concern celestial mechanics problems like the asteroid problem the design of spacecraft orbits and methods to compute periodic solutions   *Nearly Integrable Infinite-Dimensional Hamiltonian Systems* Sergej B. Kuksin,2006-11-15 The book is devoted to partial differential equations of Hamiltonian form close to integrable equations For such equations a KAM like theorem is proved stating that solutions of the unperturbed equation that are quasiperiodic in time mostly persist in the perturbed one The theorem is applied to classical nonlinear PDE s with one dimensional space variable such as the nonlinear string and nonlinear Schr dinger equation andshow that the equations have regular time quasiperiodic and time periodic solutions in rich supply These results cannot be obtained by other techniques The book will thus be of interest to mathematicians and physicists working with nonlinear PDE s An extensivesummary of the results and of related topics is provided in the Introduction All the

nontraditional material used is discussed in the firstpart of the book and in five appendices *Integrable and non-integrable Hamiltonian Systems* Viktor V. Kozlov,1989 **Differential Galois Theory** Nadia Masri,2003 <u>Nonautonomous Linear Hamiltonian Systems: Oscillation, Spectral Theory and Control</u> Russell Johnson,Rafael Obaya,Sylvia Novo,Carmen Núñez,Roberta Fabbri,2018-04-25 This monograph contains an in depth analysis of the dynamics given by a linear Hamiltonian system of general dimension with nonautonomous bounded and uniformly continuous coefficients without other initial assumptions on time recurrence Particular attention is given to the oscillation properties of the solutions as well as to a spectral theory appropriate for such systems The book contains extensions of results which are well known when the coefficients are autonomous or periodic as well as in the nonautonomous two dimensional case However a substantial part of the theory presented here is new even in those much simpler situations The authors make systematic use of basic facts concerning Lagrange planes and symplectic matrices and apply some fundamental methods of topological dynamics and ergodic theory Among the tools used in the analysis which include Lyapunov exponents Weyl matrices exponential dichotomy and weak disconjugacy a fundamental role is played by the rotation number for linear Hamiltonian systems of general dimension The properties of all these objects form the basis for the study of several themes concerning linear quadratic control problems including the linear regulator property the Kalman Bucy filter the infinite horizon optimization problem the nonautonomous version of the Yakubovich Frequency Theorem and dissipativity in the Willems sense The book will be useful for graduate students and researchers interested in nonautonomous differential equations dynamical systems and ergodic theory spectral theory of differential operators and control theory <u>New Lagrangian And Hamiltonian Methods In Field Theory</u> Giovanni Giachetta,Luigi Mangiarotti,Gennadi A Sardanashvily,1997-12-18 This book incorporates 3 modern aspects of mathematical physics the jet methods in differential geometry Lagrangian formalism on jet manifolds and the multimomentum approach to Hamiltonian formalism Several contemporary field models are investigated in detail This is not a book on differential geometry However modern concepts of differential geometry such as jet manifolds and connections are used throughout the book Quadratic Lagrangians and Hamiltonians are studied at the general level including a treatment of Hamiltonian formalism on composite fiber manifolds The book presents new geometric methods and results in field theory **Advances in Hamiltonian Systems** ,1983-01-01 <u>Lectures on Hamiltonian Systems</u> Jürgen Moser,1968 *Chaotic Dynamics In Hamiltonian Systems: With Applications To Celestial Mechanics* Harry Dankowicz,1997-12-16 In the past hundred years investigators have learned the significance of complex behavior in deterministic systems The potential applications of this discovery are as numerous as they are encouraging This text clearly presents the mathematical foundations of chaotic dynamics including methods and results at the forefront of current research The book begins with a thorough introduction to dynamical systems and their applications It goes on to develop the theory of regular and stochastic behavior in higher degree of freedom Hamiltonian systems covering topics such as homoclinic chaos KAM theory the

Melnikov method and Arnold diffusion Theoretical discussions are illustrated by a study of the dynamics of small circumasteroidal grains perturbed by solar radiation pressure With alternative derivations and proofs of established results substituted for those in the standard literature this work serves as an important source for researchers students and teachers Skillfully combining in depth mathematics and actual physical applications this book will be of interest to the applied mathematician the theoretical mechanical engineer and the dynamical astronomer alike

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