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**Four-Dimensional
Integrable Hamiltonian
Systems with
Simple Singular Points
(Topological Aspects)**

L. M. Lerman
Yu. L. Ilyashenko



American Mathematical Society

Four Dimensional Integrable Hamilton Systems With Simple Singular Point Topological Aspects

Roman Wölfel



Four Dimensional Integrable Hamilton Systems With Simple Singular Point Topological Aspects:

Four-dimensional Integrable Hamiltonian Systems with Simple Singular Points (topological Aspects) Lev M. Lerman, Yan L. Umanskiy, 1998 The main topic of this book is the isoenergetic structure of the Liouville foliation generated by an integrable system with two degrees of freedom and the topological structure of the corresponding Poisson action of the group \mathbb{R}^2 This is a first step towards understanding the global dynamics of Hamiltonian systems and applying perturbation methods Emphasis is placed on the topology of this foliation rather than on analytic representation In contrast to previously published works in this area here the authors consistently use the dynamical properties of the action to achieve their results

Four-Dimensional Integrable Hamiltonian Systems with Simple Singular Points (Topological Aspects) Lev M. Lerman Ya. L. Umanskiy, The main topic of this book is the isoenergetic structure of the Liouville foliation generated by an integrable system with two degrees of freedom and the topological structure of the corresponding Poisson action of the group \mathbb{R}^2 This is a first step towards understanding the global dynamics of Hamiltonian systems and applying perturbation methods Emphasis is placed on the topology of this foliation rather than on analytic representation In contrast to previously published works in this area here the authors consistently use the dynamical properties of the action to achieve their results

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A.V. Bolsinov, A.T. Fomenko, 2004-02-25 Integrable Hamiltonian systems have been of growing interest over the past 30 years and represent one of the most intriguing and mysterious classes of dynamical systems This book explores the topology of integrable systems and the general theory underlying their qualitative properties singularities and topological invariants The authors **Local and Semi-Local Bifurcations in Hamiltonian Dynamical Systems** Heinz Hanßmann, 2007 Once again KAM theory is committed in the context of nearly integrable Hamiltonian systems While elliptic and hyperbolic tori determine the distribution of maximal invariant tori they themselves form n parameter families Hence without the need for untypical

conditions or external parameters torus bifurcations of high co dimension may be found in a single given Hamiltonian system The text moves gradually from the integrable case in which symmetries allow for reduction to bifurcating equilibria to non integrability where smooth parametrisations have to be replaced by Cantor sets Planar singularities and their versal unfoldings are an important ingredient that helps to explain the underlying dynamics in a transparent way *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 Schrödinger equation and show 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 extensive summary of the results and of related topics is provided in the Introduction All the nontraditional material used is discussed in the first part of the book and in five appendices **Hamiltonian Systems with Three or More Degrees of Freedom** Carles Simó, 2012-12-06 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 Schrödinger 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 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 Poincaré'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

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