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TRANSLATIONS

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Methods of Qualitative Theory of Differential Equations and Related Topics

L. Lerman
G. Polotovskii
L. Shilnikov
Editors



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Methods Of Qualitative Theory Of Differential Equations And Related Topics

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Methods Of Qualitative Theory Of Differential Equations And Related Topics:

Methods of Qualitative Theory of Differential Equations and Related Topics Lev M. Lerman, 2000 *Methods of Qualitative Theory of Differential Equations and Related Topics*, 2000 **Methods of Qualitative Theory of Differential Equations and Related Topics** Lev M. Lerman, 2000 Dedicated to the memory of Professor E A Leontovich Andronova this book was composed by former students and colleagues who wished to mark her contributions to the theory of dynamical systems A detailed introduction by Leontovich Andronova s close colleague L Shilnikov presents biographical data and describes her main contribution to the theory of bifurcations and dynamical systems The main part of the volume is composed of research papers presenting the interests of Leontovich Andronova her students and her colleagues Included are articles on traveling waves in coupled circle maps bifurcations near a homoclinic orbit polynomial quadratic systems on the plane foliations on surfaces homoclinic bifurcations in concrete systems topology of plane controllability regions separatrix cycle with two saddle foci dynamics of 4 dimensional symplectic maps torus maps from strong resonances structure of 3 degree of freedom integrable Hamiltonian systems splitting separatrices in complex differential equations Shilnikov s bifurcation for C1 smooth systems and blue sky catastrophe for periodic orbits *Methods of Qualitative Theory of Differential Equations and Related Topics* American Mathematical Society, 2000 **Methods of Qualitative Theory of Differential Equations and Related Topics** Lev M. Lerman, 2000 **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

Handbook of Dynamical Systems H. Broer, F. Takens, B. Hasselblatt, 2010-11-10 In this volume the authors present a collection of surveys on various aspects of the theory of bifurcations of differentiable dynamical systems and related topics By selecting these subjects they focus on those developments from which research will be active in the coming years The

surveys are intended to educate the reader on the recent literature on the following subjects transversality and generic properties like the various forms of the so called Kupka Smale theorem the Closing Lemma and generic local bifurcations of functions so called catastrophe theory and generic local bifurcations in 1 parameter families of dynamical systems and notions of structural stability and moduli Covers recent literature on various topics related to the theory of bifurcations of differentiable dynamical systems Highlights developments that are the foundation for future research in this field Provides material in the form of surveys which are important tools for introducing the bifurcations of differentiable dynamical systems

Methods of Quantum Field Theory in Statistical Physics Alekse? Alekseevich Abrikosov, Lev Petrovich Gor?kov, I. E.

Dzyaloshinski, Igor? Ekhiel?evich Dzi?aloshinski?, 1975-10-01 This comprehensive introduction to the many body theory was written by three renowned physicists and acclaimed by American Scientist as a classic text on field theoretic methods in statistical physics

Topology, Geometry, Integrable Systems, and Mathematical Physics V. M. Buchstaber, B. A. Dubrovin, I. M. Krichever, 2014-11-18 Articles in this collection are devoted to modern problems of topology geometry mathematical physics and integrable systems and they are based on talks given at the famous Novikov's seminar at the Steklov Institute of Mathematics in Moscow in 2012-2014 The articles cover many aspects of seemingly unrelated areas of modern mathematics and mathematical physics they reflect the main scientific interests of the organizer of the seminar Sergey Petrovich Novikov The volume is suitable for graduate students and researchers interested in the corresponding areas of mathematics and physics

Linear and Complex Analysis Alexei Alexandrov, Anton Baranov, Sergey Kislyakov,

Geometry, Topology, and Mathematical Physics V. M. Buchstaber, Sergei Petrovich Novikov, I. M. Krichever, 2004 The second half of the 20th century and its conclusion crisis in the physics and mathematics community in Russia and in the West Interview with Sergey P. Novikov The w function of the KdV hierarchy On the zeta functions of a meromorphic germ in two variables On almost duality for Frobenius manifolds Finitely presented semigroups in knot theory Oriented case Topological robotics subspace arrangements and collision free motion planning The initial boundary value problem on the interval for the nonlinear Schrödinger equation The algebro-geometric approach I On odd Laplace operators II From 2D Toda hierarchy to conformal maps for domains of the Riemann sphere Integrable chains on algebraic curves Fifteen years of KAM for PDE Graded filiform Lie algebras and symplectic nilmanifolds Adiabatic limit in the Seiberg-Witten equations Affine Krichever-Novikov algebras their representations and applications Tame integrals of motion and minimal structures

Elements of Applied Bifurcation Theory Yuri Kuznetsov, 2013-03-09 The years that have passed since the publication of the first edition of this book proved that the basic principles used to select and present the material made sense The idea was to write a simple text that could serve as a serious introduction to the subject Of course the meaning of simplicity varies from person to person and from country to country The word introduction contains even more ambiguity To start reading this book only a moderate knowledge of linear algebra and calculus is required Other preliminaries qualified as elementary in modern

mathematics are explicitly formulated in the book These include the Fredholm Alternative for linear systems and the multidimensional Implicit Function Theorem Using these very limited tools a framework of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems Among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community Hopefully this edition of the book will contribute to this process The book's structure has been kept intact Most of the changes introduced reflect recent theoretical and software developments in which the author was involved Important changes in the third edition can be summarized as follows A new section devoted to the fold flip bifurcation for maps has appeared in Chapter 9

Modern Theory of Dynamical Systems Anatole Katok, Yakov Pesin, Federico Rodriguez Hertz, 2017-06-19 This volume is a tribute to one of the founders of modern theory of dynamical systems the late Dmitry Victorovich Anosov It contains both original papers and surveys written by some distinguished experts in dynamics which are related to important themes of Anosov's work as well as broadly interpreted further crucial developments in the theory of dynamical systems that followed Anosov's original work Also included is an article by A Katok that presents Anosov's scientific biography and a picture of the early development of hyperbolicity theory in its various incarnations complete and partial uniform and nonuniform

Operator Theory and Its Applications Michael Levitin, Dmitrii G. Vassiliev, 2010 Devoted to the theory of linear operators in Hilbert spaces and its applications the subjects covered in this book range from the abstract theory of Toeplitz operators to the analysis of very specific differential operators arising in quantum mechanics electromagnetism and the theory of elasticity

Methods of Thermodynamics Howard Reiss, 2012-09-05 Outstanding text focuses on physical technique of thermodynamics typical problems and significance and use of thermodynamic potential Mathematical apparatus first law of thermodynamics second law and entropy more 1965 edition

Proceedings of the St. Petersburg Mathematical Society, Volume XIV Sankt-Peterburgskoe matematicheskoe obshchestvo, 2009 Contains articles on analysis probability partial differential operators frames and other areas of mathematics This volume also contains a comprehensive article about the classification of pseudo regular convex polyhedra It is suitable for a broad group of graduate students and researchers interested in the topics presented here

L. D. Faddeev's Seminar on Mathematical Physics Michael Semenov-Tian-Shansky, Mikhail Semenov-Tian-Shanskiĭ, 2000 A collection of articles written by researchers affiliated with L D Faddeev's seminar at the Leningrad Department of the Steklov Mathematical Institute Two papers deal with subjects arising from quantum field theory and another group of papers examine various aspects of the classical inverse scattering method and its generalizations A third group of papers deals with various aspects of the quantum inverse scattering method and quantum groups A final paper reports on a new advance in deformation quantization and presents an explicit formula for the formal deformation quantization on arbitrary Kahler manifolds Annotation copyrighted by Book News Inc Portland OR

Lie Groups and Invariant Theory Ernest Borisovich

Vinberg, 2005 This volume devoted to the 70th birthday of A L Onishchik contains a collection of articles by participants in the Moscow Seminar on Lie Groups and Invariant Theory headed by E B Vinberg and A L Onishchik The book is suitable for graduate students and researchers interested in Lie groups and related topics Analytical Methods of Optimization D. F. Lawden, 2006-05-05 Suitable for advanced undergraduates and graduate students this text surveys the classical theory of the calculus of variations It takes the approach most appropriate for applications to problems of optimizing the behavior of engineering systems Two of these problem areas have strongly influenced this presentation the design of the control systems and the choice of rocket trajectories to be followed by terrestrial and extraterrestrial vehicles Topics include static systems control systems additional constraints the Hamilton Jacobi equation and the accessory optimization problem Prerequisites include a course in the analysis of functions of many real variables and a familiarity with the elementary theory of ordinary differential equations especially linear equations Emphasis throughout the text is placed upon methods and principles which are illustrated by worked problems and sets of exercises Solutions to the exercises are available from the publisher upon request

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