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Series 2 · Volume 153

Singularity Theory and Some Problems of Functional Analysis

American Mathematical Society

Singularity Theory And Some Problems Of Functional Analysis

Clifford Lane

Singularity Theory And Some Problems Of Functional Analysis:

Singularity Theory and Some Problems of Functional Analysis ,1992 **Singularity Theory and Some Problems of Functional Analysis** Semen Grigorʹevich Gindikin,1992 The emergence of singularity theory marks the return of mathematics to the study of the simplest analytical objects functions graphs curves surfaces The modern singularity theory for smooth mappings which is currently undergoing intensive developments can be thought of as a crossroad where the most abstract topics such as algebraic and differential geometry and topology complex analysis invariant theory and Lie group theory meet the most applied topics such as dynamical systems mathematical physics geometrical optics mathematical economics and control theory The papers in this volume include reviews of established areas as well as presentations of recent results in singularity theory The authors have paid special attention to examples and discussion of results rather than burying the ideas in formalism notation and technical details The aim is to introduce all mathematicians as well as physicists engineers and other consumers of singularity theory to the world of ideas and methods in this burgeoning area The Interplay between Differential Geometry and Differential Equations Valentin Vasilʹevich Lychagin,1995 **Nonlinear Evolution Equations** Nina Nikolaevna Uraltseva,1995-05-19 This collection focuses on nonlinear problems in partial differential equations Most of the papers are based on lectures presented at the seminar on partial differential equations and mathematical physics at St Petersburg University Among the topics explored are the existence and properties of solutions of various classes of nonlinear evolution equations nonlinear imbedding theorems bifurcations of solutions and equations of mathematical physics Navier Stokes type equations and the nonlinear Schrodinger equation The book will be useful to researchers and graduate students working in partial differential equations and mathematical physics **Proceedings of the St. Petersburg Mathematical Society Volume III** Olʹga Aleksandrovna Ladyzhenskai□a□,1995 Books in this series highlight some of the most interesting works presented at symposia sponsored by the St Petersburg Mathematical Society Aimed at researchers in number theory field theory and algebraic geometry the present volume deals primarily with aspects of the theory of higher local fields and other types of complete discretely valuated fields Most of the papers require background in local class field theory and algebraic K theory however two of them Unit Fractions and Collections of Multiple Sums would be accessible to undergraduates **Proceedings of the St. Petersburg Mathematical Society, Volume VIII** N.N. Uraltseva,2002-04-02 The articles in this collection present new results in partial differential equations numerical analysis probability theory and geometry The results ideas and methods given in the book will be of interest to a broad range of specialists **Topics in Statistical and Theoretical Physics** R. L. Dobrushin,1996 *Dynamical Systems in Classical Mechanics* Valeriĭ Viktorovich Kozlov,1995 This book shows that the phenomenon of integrability is related not only to Hamiltonian systems but also to a wider variety of systems having invariant measures that often arise in nonholonomic mechanics Each paper presents unique ideas and original approaches to various mathematical problems related to

integrability stability and chaos in classical dynamics Topics include the inverse Lyapunov theorem on stability of equilibria geometrical aspects of Hamiltonian mechanics from a hydrodynamic perspective current unsolved problems in the dynamical systems approach to classical mechanics **Topics in Topology and Mathematical Physics** Sergeĭ Petrovich Novikov,1995 **Lie Groups and Lie Algebras: E. B. Dynkin's Seminar** Semen Grigorʹevich Gindikin,Ėrnest Borisovich Vinberg,1995 In celebration of E B Dynkin s 70th birthday this book presents current papers by those who participated in Dynkin s seminar on Lie groups and Lie algebras in the late 1950s and early 1960s Dynkin had a major influence not only on mathematics but also on the students who attended his seminar many of whom are today s leading mathematicians in Russia and in the U S Dynkin s contributions to the theory of Lie groups is well known and the survey paper by Karpelevich Onishchik and Vinberg allows readers to gain a deeper understanding of this work Features several aspects of modern develo **Topology of real algebraic varieties and related topics** V. Kharlamov,1996 **Mathematics in St. Petersburg** A. A. Bolibrukh,1996 Sinai's Moscow Seminar on Dynamical Systems L. A. Bunimovich,B. M. Gurevich,Ya. B. Pesin,1996 Singular Perturbations and Hysteresis Michael P. Mortell,Robert E. O'Malley,Alexei Pokrovskii,Vladimir Sobolev,2005-06-01 This book unifies many important recent developments in the analysis of singular perturbation and hysteresis phenomena in an accessible and comprehensive fashion In April 2002 at University College Cork in Ireland the editors conducted a workshop to provide a forum for experts to share their interests and knowledge For this book the editors have compiled research from those practitioners in areas such as reacting systems semiconductor lasers shock phenomena in economic modeling and fluid mechanics all with an emphasis on hysteresis and singular perturbations A basic introduction to hysteresis and singular perturbation theory is included with simple examples from both physics and mathematics Later chapters address applications of hysteresis to economics various aspects of the asymptotic theory of singularly perturbed systems typical problems of the asymptotic theory of contrast structures and the geometrical approach to an investigation of models with singular perturbations and hysteresis Complements of Discriminants of Smooth Maps V. A. Vasilʹev,1994 Up to date reference on this exciting area of mathematics Discusses the wide range of applications in topology algebraic geometry and catastrophe theory *Topological Field Theory, Primitive Forms and Related Topics* Masaki Kashiwara,1998-12 As the interaction of mathematics and theoretical physics continues to intensify the theories developed in mathematics are being applied to physics and conversely This book centers around the theory of primitive forms which currently plays an active and key role in topological field theory theoretical physics but was originally developed as a mathematical notion to define a good period mapping for a family of analytic structures The invited papers in this volume are expository in nature by participants of the Taniguchi Symposium on Topological Field Theory Primitive Forms and Related Topics and the RIMS Symposium bearing the same title both held in Kyoto The papers reflect the broad research of some of the world s leading mathematical physicists and should serve as an excellent resource for researchers as well as graduate

students of both disciplines *Topological Field Theory, Primitive Forms and Related Topics* A. Kashiwara,A. Matsuo,K. Saito,I. Satake,2012-12-06 As the interaction of mathematics and theoretical physics continues to intensify the theories developed in mathematics are being applied to physics and conversely This book centers around the theory of primitive forms which currently plays an active and key role in topological field theory theoretical physics but was originally developed as a mathematical notion to define a good period mapping for a family of analytic structures The invited papers in this volume are expository in nature by participants of the Taniguchi Symposium on Topological Field Theory Primitive Forms and Related Topics and the RIMS Symposium bearing the same title both held in Kyoto The papers reflect the broad research of some of the world s leading mathematical physicists and should serve as an excellent resource for researchers as well as graduate students of both disciplines **Model Reduction and Coarse-Graining Approaches for Multiscale Phenomena** Alexander N. Gorban,Nikolas Kazantzis,I. G. Kevrekidis,Hans Christian Öttinger,Konstantinos Theodoropoulos,2006-09-22 Model reduction and coarse graining are important in many areas of science and engineering How does a system with many degrees of freedom become one with fewer How can a reversible micro description be adapted to the dissipative macroscopic model These crucial questions as well as many other related problems are discussed in this book All contributions are by experts whose specialities span a wide range of fields within science and engineering Genericity In Polynomial Optimization Tien Son Pham,Ha Huy Vui,2016-12-22 In full generality minimizing a polynomial function over a closed semi algebraic set requires complex mathematical equations This book explains recent developments from singularity theory and semi algebraic geometry for studying polynomial optimization problems Classes of generic problems are defined in a simple and elegant manner by using only the two basic and relatively simple notions of Newton polyhedron and non degeneracy conditions associated with a given polynomial optimization problem These conditions are well known in singularity theory however they are rarely considered within the optimization community Explanations focus on critical points and tangencies of polynomial optimization H lderian error bounds for polynomial systems Frank Wolfe type theorem for polynomial programs and well posedness in polynomial optimization It then goes on to look at optimization for the different types of polynomials Through this text graduate students PhD students and researchers of mathematics will be provided with the knowledge necessary to use semi algebraic geometry in optimization **Droplets and Sprays: Simple Models of Complex Processes** Sergei S. Sazhin,2022-06-28 This book acts as a guide to simple models that describe some of the complex fluid dynamics heat mass transfer and combustion processes in droplets and sprays Attention is focused mainly on the use of classical hydrodynamics and a combination of kinetic and hydrodynamic models to analyse the heating and evaporation of mono and multi component droplets The models were developed for cases when small and large numbers of components are present in droplets Some of these models are used for the prediction of time to puffing micro explosion of composite water fuel droplets processes that are widely used in combustion devices to stimulate disintegration of relatively large droplets into

smaller ones The predictions of numerical codes based on these models are validated against experimental results where possible In most of the models droplets are assumed to be spherical some preliminary results of the generalisation of these models to the case of non spherical droplets approximating them as spheroids are presented

Reviewing **Singularity Theory And Some Problems Of Functional Analysis**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Singularity Theory And Some Problems Of Functional Analysis**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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