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Singularity Theory and Some Problems of Functional Analysis



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Singularity Theory And Some Problems Of Functional Analysis

Semen Grigor'evich Gindikin



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Singularity Theory and Some Problems of Functional Analysis, 1992 **Singularity Theory and Some Problems of Functional Analysis** Semen Grigor'evich 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

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 **Dynamical Systems in Classical**

Mechanics Valerii 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 Statistical and Theoretical Physics* R. L. Dobrushin, 1996 *Lie*

Groups and Lie Algebras: E. B. Dynkin's Seminar Semen Grigor'evich Gindikin, Ernest 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 develop

Topics in Topology and Mathematical Physics Sergei Petrovich Novikov, 1995 **Singular Perturbations** Elena Shchepakina, Vladimir Sobolev, Michael P. Mortell, 2014-10-06 These lecture notes provide a fresh approach to investigating singularly perturbed systems using asymptotic and geometrical techniques It gives many examples and step by step techniques which will help beginners move to a more advanced level Singularly perturbed systems appear naturally in the modelling of many processes

that are characterized by slow and fast motions simultaneously for example in fluid dynamics and nonlinear mechanics This book s approach consists in separating out the slow motions of the system under investigation The result is a reduced differential system of lesser order However it inherits the essential elements of the qualitative behaviour of the original system Singular Perturbations differs from other literature on the subject due to its methods and wide range of applications It is a valuable reference for specialists in the areas of applied mathematics engineering physics biology as well as advanced undergraduates for the earlier parts of the book and graduate students for the later chapters

Topology of real algebraic varieties and related topics V. Kharlamov,1996 Mathematics in St. Petersburg A. A. Bolibrukh,1996

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