

American Mathematical Society

TRANSLATIONS

Series 2 • Volume 153

Singularity Theory and Some Problems of Functional Analysis



American Mathematical Society

Singularity Theory And Some Problems Of Functional Analysis

A. A. Bolibrukh



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 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

The Top Books of the Year Singularity Theory And Some Problems Of Functional Analysis The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Singularity Theory And Some Problems Of Functional Analysis : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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