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Volume 131

Functions on Manifolds
Algebraic and Topological Aspects

V. V. Sharko



American Mathematical Society

Functions On Manifolds Algebraic And Topological Aspects

Masayoshi Miyanishi



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Functions on Manifolds: Algebraic and Topological Aspects

Vladimir Vasil'evich Sharko, 1993 This monograph covers in a unified manner new results on smooth functions on manifolds A major topic is Morse and Bott functions with a minimal number of singularities on manifolds of dimension greater than five Sharko computes obstructions to deformation of one Morse function into another on a simply connected manifold In addition a method is developed for constructing minimal chain complexes and homotopical systems in the sense of Whitehead This leads to conditions under which Morse functions on non simply connected manifolds exist Sharko also describes new homotopical invariants of manifolds which are used to substantially improve the Morse inequalities The conditions guaranteeing the existence of minimal round Morse functions are discussed

Identities of Algebras and their Representations I. U. Pitrimovich Razmyslov, 1994 During the past forty years a new trend in the theory of associative algebras Lie algebras and their representations has formed under the influence of mathematical logic and universal algebra namely the theory of varieties and identities of associative algebras Lie algebras and their representations The last twenty years have seen the creation of the method of 2 words and alpha functions which allowed a number of problems in the theory of groups rings Lie algebras and their representations to be solved in a unified way The possibilities of this method are far from exhausted This book sums up the applications of the method of 2 words and alpha functions in the theory of varieties and gives a systematic exposition of contemporary achievements in the theory of identities of algebras and their representations closely related to this method The aim is to make these topics accessible to a wider group of mathematicians

Nonlinear Mechanics, Groups and Symmetry Yuri A. Mitropolsky, A.K. Lopatin, 2013-03-09 This unique monograph deals with the development of asymptotic methods of perturbation theory making wide use of group theoretical techniques Various assumptions about specific group properties are investigated and are shown to lead to modifications of existing methods such as the Bogoliubov averaging method and the Poincaré-Birkhoff normal form as well as to the formulation of new ones The development of normalization techniques of Lie groups is also treated The wealth of examples demonstrates how these new group theoretical techniques can be applied to analyze specific problems This book will be of interest to researchers and graduate students in the field of pure and applied mathematics mechanics physics engineering and biosciences

Essays in Mathematics and its Applications Themistocles M. Rassias, Panos M. Pardalos, 2016-06-14 This volume dedicated to the eminent mathematician Vladimir Arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by Arnold himself Emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics A number of applications of Arnold's groundbreaking work are presented This publication will assist graduate students and research mathematicians in acquiring an in depth understanding and insight

into a wide domain of research of an interdisciplinary nature *Riemannian Geometry* Takashi Sakai, 1996-01-01 This volume is an English translation of Sakai's textbook on Riemannian Geometry which was originally written in Japanese and published in 1992. The author's intent behind the original book was to provide to advanced undergraduate and graduate students an introduction to modern Riemannian geometry that could also serve as a reference. The book begins with an explanation of the fundamental notion of Riemannian geometry. Special emphasis is placed on understandability and readability to guide students who are new to this area. The remaining chapters deal with various topics in Riemannian geometry with the main focus on comparison methods and their applications **Essays in Mathematics and its Applications**

Panos M. Pardalos, Themistocles M. Rassias, 2012-08-07 The volume is dedicated to Stephen Smale on the occasion of his 80th birthday. Besides his startling 1960 result of the proof of the Poincaré conjecture for all dimensions greater than or equal to five, Smale's ground-breaking contributions in various fields in Mathematics have marked the second part of the 20th century and beyond. Stephen Smale has done pioneering work in differential topology, global analysis, dynamical systems, nonlinear functional analysis, numerical analysis, theory of computation, and machine learning, as well as applications in the physical and biological sciences and economics. In sum, Stephen Smale has manifestly broken the barriers among the different fields of mathematics and dispelled some remaining prejudices. He is indeed a universal mathematician. Smale has been honored with several prizes and honorary degrees including among others the Fields Medal 1966, The Veblen Prize 1966, the National Medal of Science 1996, and the Wolf Prize 2006. 2007 *Geometric Theory of Functions of a Complex Variable* Gennadii Mikhaïlovich Goluzin, 1969 **Function Theory in Several Complex Variables**

Toshio Nishino, 2001 Kiyoshi Oka, at the beginning of his research, regarded the collection of problems which he encountered in the study of domains of holomorphy as large mountains which separate today and tomorrow. Thus he believed that there could be no essential progress in analysis without climbing over these mountains. This book is a worthwhile initial step for the reader in order to understand the mathematical world which was created by Kiyoshi Oka. From the Preface. This book explains results in the theory of functions of several complex variables which were mostly established from the late nineteenth century through to the middle of the twentieth century. In the work, the author introduces the mathematical world created by his advisor Kiyoshi Oka. In this volume, Oka's work is divided into two parts. The first is the study of analytic functions in univalent domains in \mathbb{C}^n . Here Oka proved that three concepts are equivalent: domains of holomorphy, holomorphically convex domains, and pseudoconvex domains, and moreover that the Poincaré problem, the Cousin problems, and the Runge problem, when stated properly, can be solved in domains of holomorphy satisfying the appropriate conditions. The second part of Oka's work established a method for the study of analytic functions defined in a ramified domain over \mathbb{C}^n in which the branch points are considered as interior points of the domain. Here analytic functions in an analytic space are treated, which is a slight generalization of a ramified domain over \mathbb{C}^n . In writing the book, the author's goal

was to bring to readers a real understanding of Oka's original papers This volume is an English translation of the original Japanese edition published by the University of Tokyo Press Japan It would make a suitable course text for advanced graduate level introductions to several complex variables

Algebraic Geometry Masayoshi Miyanishi, Students often find in setting out to study algebraic geometry that most of the serious textbooks on the subject require knowledge of ring theory field theory local rings and transcendental field extensions and even sheaf theory Often the expected background goes well beyond college mathematics This book aimed at senior undergraduates and graduate students grew out of Miyanishi's attempt to lead students to an understanding of algebraic surfaces while presenting the necessary background along the way Originally published in Japanese in 1990 it presents a self-contained introduction to the fundamentals of algebraic geometry This book begins with background on commutative algebras sheaf theory and related cohomology theory The next part introduces schemes and algebraic varieties the basic language of algebraic geometry The last section brings readers to a point at which they can start to learn about the classification of algebraic surfaces

An Introduction to Algebraic Geometry Kenji Ueno, 1997 This introduction to algebraic geometry allows readers to grasp the fundamentals of the subject with only linear algebra and calculus as prerequisites After a brief history of the subject the book introduces projective spaces and projective varieties and explains plane curves and resolution of their singularities The volume further develops the geometry of algebraic curves and treats congruence zeta functions of algebraic curves over a finite field It concludes with a complex analytical discussion of algebraic curves The author emphasizes computation of concrete examples rather than proofs and these examples are discussed from various viewpoints This approach allows readers to develop a deeper understanding of the theorems

Breadth in Contemporary Topology David T. Gay, Weiwei Wu, 2019-06-27 This volume contains the proceedings of the 2017 Georgia International Topology Conference held from May 22 June 2 2017 at the University of Georgia Athens Georgia The papers contained in this volume cover topics ranging from symplectic topology to classical knot theory to topology of 3 and 4 dimensional manifolds to geometric group theory Several papers focus on open problems while other papers present new and insightful proofs of classical results Taken as a whole this volume captures the spirit of the conference both in terms of public lectures and informal conversations and presents a sampling of some of the great new ideas generated in topology over the preceding eight years

Calculus of Variations and Harmonic Maps Hajime Urakawa, 2013-02-15 This book provides a wide view of the calculus of variations as it plays an essential role in various areas of mathematics and science Containing many examples open problems and exercises with complete solutions the book would be suitable as a text for graduate courses in differential geometry partial differential equations and variational methods The first part of the book is devoted to explaining the notion of infinite dimensional manifolds and contains many examples An introduction to Morse theory of Banach manifolds is provided along with a proof of the existence of minimizing functions under the Palais-Smale condition The second part which may be read independently of the first presents the theory of

harmonic maps with a careful calculation of the first and second variations of the energy Several applications of the second variation and classification theories of harmonic maps are given Lectures on Entire Functions B. Ya Levin,1996-07-23 As a brilliant university lecturer B Ya Levin attracted a large audience of working mathematicians and of students from various levels and backgrounds For approximately 40 years his Kharkov University seminar was a school for mathematicians working in analysis and a center for active research This monograph aims to expose the main facts of the theory of entire functions and to give their applications in real and functional analysis The general theory starts with the fundamental results on the growth of entire functions of finite order their factorization according to the Hadamard theorem properties of indicator and theorems of Phragmen Lindelof type **Probability Theory** Anatoli_I_A_kovlevich Dorogovt_s_ev,A. Ya. Dorogovtsev,D. S. Silvestrov,A. V. Skorokhod,M. I. Yadrenko,2011-06-21 This book of problems is intended for students in pure and applied mathematics There are problems in traditional areas of probability theory and problems in the theory of stochastic processes which has wide applications in the theory of automatic control queuing and reliability theories and in many other modern science and engineering fields Answers to most of the problems are given and the book provides hints and solutions for more complicated problems *Algebraic Topology--old and New* Marek Golasinski,2009 *Asymptotic Methods in the Theory of Gaussian Processes and Fields* Vladimir I. Piterbarg,2012-03-28 This book is devoted to a systematic analysis of asymptotic behavior of distributions of various typical functionals of Gaussian random variables and fields The text begins with an extended introduction which explains fundamental ideas and sketches the basic methods fully presented later in the book Good approximate formulas and sharp estimates of the remainders are obtained for a large class of Gaussian and similar processes The author devotes special attention to the development of asymptotic analysis methods emphasizing the method of comparison the double sum method and the method of moments The author has added an extended introduction and has significantly revised the text for this translation particularly the material on the double sum method Spectral Theory of Operators Semen Grigor'evich Gindikin,1992 Containing the proceedings of the Fourteenth School on Operators in Functional Spaces this volume focuses on the spectral theory of differential operators The emphasis is on estimates of the number of negative eigenvalues of elliptic differential operators and on the analysis of asymptotical distribution of eigenvalues Leading Soviet specialists in this area provide an excellent overview of some of the major problems in the field

Problems and Theorems in Linear Algebra Viktor Vasil_evich Prasolov,1994-06-13 There are a number of very good books available on linear algebra However new results in linear algebra appear constantly as do new simpler and better proofs of old results Many of these results and proofs obtained in the past thirty years are accessible to undergraduate mathematics majors but are usually ignored by textbooks In addition more than a few interesting old results are not covered in many books In this book the author provides the basics of linear algebra with an emphasis on new results and on nonstandard and interesting proofs The book features about 230 problems with complete solutions It can serve as a

supplementary text for an undergraduate or graduate algebra course *Real Analysis* Satoru Igari, 1998 This introduction to real analysis is based on a series of lectures by the author at Tohoku University The text covers real numbers the notion of general topology and a brief treatment of the Riemann integral followed by chapters on the classical theory of the Lebesgue integral on Euclidean spaces the differentiation theorem and functions of bounded variation Lebesgue spaces distribution theory the classical theory of the Fourier transform and Fourier series and wavelet theory Features of this title include the core subjects of real analysis and the fundamentals for students who are interested in harmonic analysis probability or partial differential equations This volume would be a suitable textbook for an advanced undergraduate or first year graduate course in analysis

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