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Real and Complex Singularities

David Mond Naccelo José Sala



Real And Complex Singularities

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Real And Complex Singularities:

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differential geometry robotics and computer vision The final section consists of applications to bifurcation theory and dynamical systems With over two hundred tables that provide quick access to data this volume is a complete overview of the most current topics and applications of singularity theory Real and Complex Singularities creates the opportunity for you to stay up to date with recent advances and discover promising directions for future research in the field and Complex Singularities Alexandru Dimca, 2013-07-02 Real and Complex Singularities Terence Gaffney, Maria Aparecida Soares Ruas, 2004 The Workshop on Real and Complex Singularities is held every other year at the Instituto de Ciencias Matematicas e de Computação São Carlos Brazil and brings together specialists in the vanguard of singularities and its applications This volume contains articles contributed by participants of the seventh workshop Topics On Real And Complex Singularities Satoshi Koike, Toshizumi Fukui, Laurentiu Paunescu, Adam Harris, Alexander Isaev, 2014-04-02 A phenomenon which appears in nature or human behavior can sometimes be explained by saying that a certain potential function is maximized or minimized For example the Hamiltonian mechanics soapy films size of an atom business management etc In mathematics a point where a given function attains an extreme value is called a critical point or a singular point The purpose of singularity theory is to explore the properties of singular points of functions and mappings This is a volume on the proceedings of the fourth Japanese Australian Workshop on Real and Complex Singularities held in Kobe Japan It consists of 11 original articles on singularities Readers will be introduced to some important new notions for characterizations of singularities and several interesting results are delivered In addition current approaches to classical topics and state of the art effective computational methods of invariants of singularities are also presented This volume will be useful not only to the singularity theory specialists but also to general mathematicians **Real and Complex Singularities** Jean-Paul Brasselet, Maria Aparecida Soares Ruas, 2007-01-05 This volume collects papers presented at the eighth S o Carlos Workshop on Real and Complex Singularities held at the IML Marseille July 2004 Like the workshop this collection establishes the state of the art and presents new trends new ideas and new results in all of the branches of singularities Real and Complex Singularities offers a useful summary of leading ideas in singularity theory and inspiration for Real and Complex Singularities M. Manoel, M. C. Romero Fuster, C. T. C. Wall, 2010-10-07 The biennial future research meetings at S o Carlos have helped create a worldwide community of experts and young researchers working on singularity theory with a special focus on applications to a wide variety of topics in both pure and applied mathematics The tenth meeting celebrating the 60th birthdays of Terence Gaffney and Maria Aparecida Soares Ruas was a special occasion attracting the best known names in the area This volume contains contributions by the attendees including three articles written or co authored by Gaffney himself and survey articles on the existence of Milnor fibrations global classifications and graphs pairs of foliations on surfaces and Gaffney's work on equisingularity Real and Complex Singularities Laurentiu Paunescu, 2007 The modern theory of singularities provides a unifying theme that runs through fields of mathematics as

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vectors of immersed manifolds Thom polynomials and Schur functions obstructions on fundamental groups of plane curve complements and exotic moduli of Goursat distributions No index is provided Real and Complex Singularities, Oslo 1976 Per Holm,1977-12-27 This volume contains the lectures given at the Nordic Summer School in Mathematics 1976 as well as the papers reported on in the adjoint sym posium The Summer School was the 9th in the series sponsored by Nordic Research Courses of the Nordic Cultural Commission The symposium organized in conjunction with the Summer School was made possible through grants from the Norwegian Research Council for Science and Humanities NA VF It is definite that the full project could not have succeeded without the support of both organizations and I would here like to thank the Nordic Cultural Commission and the Norwegian Research Council for making it possible The present book contains nearly all talks given at the meeting with one notable exception The elegant exposition of John Mather on the genericity and finite type of the topologically stable maps was not written up in time to be included in the book The loss is partly made up for by two recent expositions in the Springer Lecture Notes No 535 and 552 which however both differ from the presentation given at the Summer School It is to be hoped that Mather's proof will appear ultimately Finally I take this opportunity to express my gratitude to the staff of the Mathematics Institute in particular to Mrs Kirkaloff and Mrs Moller Introduction to Lipschitz Geometry of Singularities Walter Neumann, Anne Pichon, 2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier's previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject Real and complex Singularities, Oslo **1976** ,1976 **Introduction to Complex Theory of Differential Equations** Anton Savin, Boris Sternin, 2017-03-28 This book discusses the complex theory of differential equations or more precisely the theory of differential equations on complex analytic manifolds Although the theory of differential equations on real manifolds is well known it is described in thousands of papers and its usefulness requires no comments or explanations to date specialists on differential equations have not focused on the complex theory of partial differential equations However as well as being remarkably beautiful this theory can be used to solve a number of problems in real theory for instance the Poincar balayage problem and the mother body problem in geophysics The monograph does not require readers to be familiar with advanced notions in complex analysis

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