

**M. Roberts
I. Stewart (Eds.)**

Singularity Theory and its Applications

1463

Part II: Singularities, Bifurcations and Dynamics
Coventry, UK 1989

 Springer

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Singularity Theory and its Applications David Mond, James Montaldi, 2006-11-14 A workshop on Singularities Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications The proceedings fall into two halves Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory bifurcation theory and applications in the sciences The papers are original research stimulated by the symposium and workshops All have been refereed and none will appear elsewhere The main topic deformation theory is represented by several papers on descriptions of the bases of versal deformations and several more on descriptions of the generic fibres Other topics include stratifications and applications to differential geometry

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New Developments in Singularity Theory Dirk Wiersma, C.T.C. Wall, V. Zakalyukin, 2012-12-06 Singularities arise naturally in a huge number of different areas of mathematics and science As a consequence singularity theory lies at the crossroads of paths that connect many of the most important areas of applications of mathematics with some of its most abstract regions The main goal in most problems of singularity theory is to understand the dependence of some objects of analysis geometry physics or other science functions varieties mappings vector or tensor fields differential equations models etc on parameters The articles collected here can be grouped under three headings A Singularities of real maps B Singular complex variables and C Singularities of homomorphic maps

Lie Algebras and Lie Groups Jean-Pierre Serre, 2009-02-07 This book reproduces J P Serre's 1964 Harvard lectures The aim is to introduce the reader to the Lie dictionary Lie algebras and Lie groups Special features of the presentation are its emphasis on formal groups in the Lie group part and the use of analytic manifolds on p -adic fields Some knowledge of algebra and calculus is required of the reader but the text is easily accessible to graduate students and to mathematicians at large

Non-Archimedean L-Functions Alexei A. Panchishkin, 2013-11-11 1 p n 1 The set of arguments s for which s is defined can be extended to all $s \in \mathbb{C}$ $\Re s > 1$ and we may regard C as the group of all continuous quasicharacters $C = \text{Hom } R, \mathbb{C}$

Singularity Theory Bill Bruce, D. Mond, 1999-06-03 An up to date survey of research in singularity theory

Singularities Egbert Brieskorn, 1998 In July 1996 a conference was organized by the editors of this volume at the Mathematisches Forschungsinstitut Oberwolfach to honour Egbert Brieskorn on the occasion of his 60th birthday Most of the mathematicians invited to the conference have been influenced in one way or another by Brieskorn's work in singularity theory It was the

first time that so many people from the Russian school could be present at a conference in singularity theory outside Russia. This volume contains papers on singularity theory and its applications written by participants of the conference. In many cases they are extended versions of the talks presented there. The diversity of subjects of the contributions reflects singularity theory's relevance to topology, analysis, and geometry, combining ideas and techniques from all of these fields as well as demonstrating the breadth of Brieskorn's own interests. This volume contains papers on singularity theory and its applications written by participants of the conference. In many cases they are extended versions of the talks presented there. The diversity of subjects of the contributions reflects singularity theory's relevance to topology, analysis, and geometry, combining ideas and techniques from all of these fields as well as demonstrates the breadth of Brieskorn's own interests.

Seminaire de Probabilites XXVII Jaques Azema, Paul A. Meyer, Marc Yor, 2006-11-15. This volume represents a part of the main result obtained by a group of French probabilists together with the contributions of a number of colleagues mainly from the USA and Japan. All the papers present new results obtained during the academic year 1991-1992. The main themes of the papers are quantum probability (P. A. Meyer and S. Attal), stochastic calculus (M. Nagasawa, J. B. Walsh, F. Knight), to name a few, authors, fine properties of Brownian motion (Bertoin, Burdzy, Mountford), stochastic differential geometry (Arnaudon, Elworthy), quasi-sure analysis (Lescot, Song, Hirsch). Taken all together, the papers contained in this volume reflect the main directions of the most up-to-date research in probability theory. FROM THE CONTENTS: J. P. Ansal, C. Stricker, *Unicité et existence de la loi minimale*; K. Kawazu, H. Tanaka, *On the maximum of a diffusion process in a drifted Brownian environment*; P. A. Meyer, *Représentation de martingales d'opérateurs d'après Parthasarathy Sinha*; K. Burdzy, *Excursion laws and exceptional points on Brownian paths*; X. Fernique, *Convergence en loi de variables aléatoires et de fonctions aléatoires*; propriétés de compacité des lois; II. M. Nagasawa, *Principe de superposition et interférence de processus de diffusion*; F. Knight, *Some remarks on mutual windings*; S. Song, *Inégalités relatives aux processus d'Ornstein-Uhlenbeck à n paramètres et capacité gaussienne*; c. n. 2; S. Attal, P. A. Meyer, *Interprétation probabiliste et extension des intégrales stochastiques non commutatives*; J. Azema, Th. Jeulin, F. Knight, M. Yor, *Le théorème d'arrêt en une fin d'ensemble prévisible*. Pattern Formation in Continuous and Coupled Systems

Martin Golubitsky, Dan Luss, Steven H. Strogatz, 2012-12-06. This IMA Volume in Mathematics and its Applications, PATTERN FORMATION IN CONTINUOUS AND COUPLED SYSTEMS, is based on the proceedings of a workshop with the same title but goes beyond the proceedings by presenting a series of mini-review articles that survey and provide an introduction to interesting problems in the field. The workshop was an integral part of the 1997-98 IMA program on EMERGING APPLICATIONS OF DYNAMICAL SYSTEMS. I would like to thank Martin Golubitsky, University of Houston Mathematics, Dan Luss, University of Houston Chemical Engineering, and Steven H. Strogatz, Cornell University Theoretical and Applied Mechanics, for their excellent work as organizers of the meeting and for editing the proceedings. I also take this opportunity to thank the National Science Foundation (NSF) and the Army Research Office (ARO) whose financial support made the workshop

possible Willard Miller Jr Professor and Director v PREFACE Pattern formation has been studied intensively for most of this century by both experimentalists and theoreticians and there have been many workshops and conferences devoted to the subject In the IMA workshop on Pattern Formation in Continuous and Coupled Systems held May 11-15 1998 we attempted to focus on new directions in the patterns literature *Handbook of Geometry and Topology of Singularities III* José Luis Cisneros-Molina, Lê Dũng Tráng, José Seade, 2022-06-06 This is the third volume of the Handbook of Geometry and Topology of Singularities a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of ten chapters which provide an in depth and reader friendly survey of various important aspects of singularity theory Some of these complement topics previously explored in volumes I and II such as for instance Zariski's equisingularity the interplay between isolated complex surface singularities and 3-manifold theory stratified Morse theory constructible sheaves the topology of the non critical levels of holomorphic functions and intersection cohomology Other chapters bring in new subjects such as the Thom-Mather theory for maps characteristic classes for singular varieties mixed Hodge structures residues in complex analytic varieties nearby and vanishing cycles and more Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject and in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

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