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Real Algebraic Geometry



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Real Algebraic Geometry

JR Anderson



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three chapters each focus on one more specific aspect of real algebraic varieties A panorama of classical knowledge is presented as well as major developments of the last twenty years in the topology and geometry of varieties of dimension two and three without forgetting curves the central subject of Hilbert's famous sixteenth problem Various levels of exercises are given and the solutions of many of them are provided at the end of each chapter

Real Algebraic Geometry Jacek Bochnak, Michel Coste, Marie-Francoise Roy, 2013-11-11 The present volume is a translation revision and updating of our book published in French with the title *Géométrie Algébrique Réelle* Since its publication in 1987 the theory has made advances in several directions There have also been new insights into material already in the French edition Many of these advances and insights have been incorporated in this English version of the book so that it may be viewed as being substantially different from the original

Real Algebraic Geometry Michel Coste, Louis Mahé, 1992 Ten years after the first Rennes international meeting on real algebraic geometry the second one looked at the developments in the subject during the intervening decade see the 6 survey papers listed below Further contributions from the participants on recent research covered real algebra and geometry topology of real algebraic varieties and 16th Hilbert problem classical algebraic geometry techniques in real algebraic geometry algorithms in real algebraic geometry semialgebraic geometry real analytic geometry

CONTENTS Survey papers M Knebusch Semialgebraic topology in the last ten years R Parimala Algebraic and topological invariants of real algebraic varieties Polotovskii G M On the classification of decomposing plane algebraic curves Scheiderer C Real algebra and its applications to geometry in the last ten years some major developments and results Shustin E L Topology of real plane algebraic curves Silhol R Moduli problems in real algebraic geometry Further contributions by S Akbulut and H King C Andradas and J Ruiz A Borobia L Brcker G W Brumfield A Castilla Z Charzynski and P Skibinski M Coste and M Reguiat A Degtyarev Z Denkowska J P Francoise and F Ronga J M Gamboa and C Ueno D Gondard Cozette I V Itenberg P Jaworski A Korchagin T Krasinski and S Spodzieja K Kurdyka H Lombardi M Marshall and L Walter V F Mazurovskii G Mikhalkin T Mostowski and E Rannou E I Shustin N Vorobjov

Real Algebraic Geometry and Optimization Thorsten Theobald, 2024-04-18 This book provides a comprehensive and user friendly exploration of the tremendous recent developments that reveal the connections between real algebraic geometry and optimization two subjects that were usually taught separately until the beginning of the 21st century Real algebraic geometry studies the solutions of polynomial equations and polynomial inequalities over the real numbers Real algebraic problems arise in many applications including science and engineering computer vision robotics and game theory Optimization is concerned with minimizing or maximizing a given objective function over a feasible set Presenting key ideas from classical and modern concepts in real algebraic geometry this book develops related convex optimization techniques for polynomial optimization The connection to optimization invites a computational view on real algebraic geometry and opens doors to applications Intended as an introduction for students of mathematics or related fields at an advanced undergraduate or graduate level this book serves as

a valuable resource for researchers and practitioners Each chapter is complemented by a collection of beneficial exercises notes on references and further reading As a prerequisite only some undergraduate algebra is required

Real Algebraic Geometry and Ordered Structures Charles N. Delzell, James J. Madden, 2000 This volume contains 16 carefully refereed articles by participants in the Special Semester and the AMS Special Session on Real Algebraic Geometry and Ordered Structures held at Louisiana State University and Southern University Baton Rouge The 23 contributors to this volume were among the 75 mathematicians from 15 countries who participated in the special semester Topics include the topology of real algebraic curves Hilbert's 16th problem moduli of real algebraic curves effective sums of squares of real forms Hilbert's 17th problem efficient real quantifier elimination subanalytic sets and stratifications semialgebraic singularity theory radial vector fields exponential functions and valuations on nonarchimedean ordered fields valued field extensions partially ordered and lattice ordered rings rings of continuous functions spectra of rings and abstract spaces of higher level orderings and real places This volume provides a good overview of the state of the art in this area in the 1990s It includes both expository and original research papers by top workers in this thriving field The authors and editors strived to make the volume useful to a wide audience including students and researchers interested in real algebraic geometry and ordered structures two subjects that are obviously related but seldom brought together

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