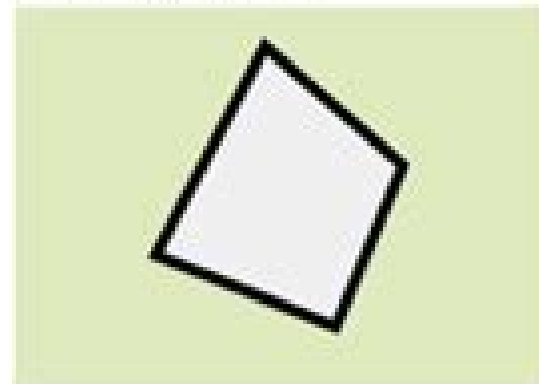


Components of Shapes

- Segments, paths, rings are components of a Geometry (feature shape)
- Rings
 - A path that is closed and has an unambiguous inside and outside



Rings And Geometry

Niels Schwartz, James J. Madden



Rings And Geometry:

Rings and Geometry R. Kaya,P. Plaumann,K. Strambach,1985-09-30 When looking for applications of ring theory in geometry one first thinks of algebraic geometry which sometimes may even be interpreted as the concrete side of commutative algebra However this highly developed branch of mathematics has been dealt with in a variety of monographs so that in spite of its technical complexity it can be regarded as relatively well accessible While in the last 120 years algebraic geometry has again and again attracted concentrated interest which right now has reached a peak once more the numerous other applications of ring theory in geometry have not been assembled in a textbook and are scattered in many papers throughout the literature which makes it hard for them to emerge from the shadow of the brilliant theory of algebraic geometry It is the aim of these proceedings to give a unifying presentation of those geometrical applications of ring theory outside of algebraic geometry and to show that they offer a considerable wealth of beautiful ideas too Furthermore it becomes apparent that there are natural connections to many branches of modern mathematics e.g. to the theory of algebraic groups and of Jordan algebras and to combinatorics To make these remarks more precise we will now give a description of the contents In the first chapter an approach towards a theory of non commutative algebraic geometry is attempted from two different points of view

Ring Theory And Algebraic Geometry A. Granja,J.A. Hermida Alonso,A Verschoren,2001-05-08

Focuses on the interaction between algebra and algebraic geometry including high level research papers and surveys contributed by over 40 top specialists representing more than 15 countries worldwide Describes abelian groups and lattices algebras and binomial ideals cones and fans affine and projective algebraic varieties simplicial and cellular complexes polytopes and arithmetics

Affine Algebraic Geometry: Geometry Of Polynomial Rings Masayoshi Miyanishi,2023-12-05

Algebraic geometry is more advanced with the completeness condition for projective or complete varieties Many geometric properties are well described by the finiteness or the vanishing of sheaf cohomologies on such varieties For non complete varieties like affine algebraic varieties sheaf cohomology does not work well and research progress used to be slow although affine spaces and polynomial rings are fundamental building blocks of algebraic geometry Progress was rapid since the Abhyankar Moh Suzuki Theorem of embedded affine line was proved and logarithmic geometry was introduced by Iitaka and Kawamata Readers will find the book covers vast basic material on an extremely rigorous level

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Topics in Commutative Ring Theory John J. Watkins,2009-02-09 Topics in Commutative Ring Theory is a textbook for advanced undergraduate students as well as graduate students and mathematicians seeking an accessible introduction to this fascinating area of

abstract algebra Commutative ring theory arose more than a century ago to address questions in geometry and number theory A commutative ring is a set such as the integers complex numbers or polynomials with real coefficients with two operations addition and multiplication Starting from this simple definition John Watkins guides readers from basic concepts to Noetherian rings one of the most important classes of commutative rings and beyond to the frontiers of current research in the field Each chapter includes problems that encourage active reading routine exercises as well as problems that build technical skills and reinforce new concepts The final chapter is devoted to new computational techniques now available through computers Careful to avoid intimidating theorems and proofs whenever possible Watkins emphasizes the historical roots of the subject like the role of commutative rings in Fermat's last theorem He leads readers into unexpected territory with discussions on rings of continuous functions and the set theoretic foundations of mathematics Written by an award winning teacher this is the first introductory textbook to require no prior knowledge of ring theory to get started

Refreshingly informal without ever sacrificing mathematical rigor Topics in Commutative Ring Theory is an ideal resource for anyone seeking entry into this stimulating field of study

Semi-algebraic Function Rings and Reflectors of Partially Ordered Rings Niels Schwartz, James J. Madden, 2006-11-13 The book lays algebraic foundations for real geometry through a systematic investigation of partially ordered rings of semi algebraic functions Real spectra serve as primary geometric objects the maps between them are determined by rings of functions associated with the spectra The many different possible choices for these rings of functions are studied via reflections of partially ordered rings Readers should feel comfortable using basic algebraic and categorical concepts As motivational background some familiarity with real geometry will be helpful The book aims at researchers and graduate students with an interest in real algebra and geometry ordered algebraic structures topology and rings of continuous functions

Commutative Ring Theory Hideyuki Matsumura, 1989-05-25 This book explores commutative ring theory an important a foundation for algebraic geometry and complex analytical geometry

Polynomial Rings and Affine Algebraic Geometry Shigeru Kuroda, Nobuharu Onoda, Gene Freudenburg, 2020-03-27 This proceedings volume gathers selected peer reviewed works presented at the Polynomial Rings and Affine Algebraic Geometry Conference which was held at Tokyo Metropolitan University on February 12-16 2018 Readers will find some of the latest research conducted by an international group of experts on affine and projective algebraic geometry The topics covered include group actions and linearization automorphism groups and their structure as infinite dimensional varieties invariant theory the Cancellation Problem the Embedding Problem Mathieu spaces and the Jacobian Conjecture the Dolgachev-Weisfeiler Conjecture classification of curves and surfaces real forms of complex varieties and questions of rationality unirationality and birationality These papers will be of interest to all researchers and graduate students working in the fields of affine and projective algebraic geometry as well as on certain aspects of commutative algebra Lie theory symplectic geometry and Stein manifolds

Ring Theory and Algebraic Geometry Ángel Granja, Jose angel Hermida, A. Verschoren, 2001

Partially Ordered Rings and Semi-Algebraic Geometry Gregory W. Brumfiel, 1979-12-20 The purpose of this unique book is to establish purely algebraic foundations for the development of certain parts of topology. Some topologists seek to understand geometric properties of solutions to finite systems of equations or inequalities and configurations which in some sense actually occur in the real world. Others study spaces constructed more abstractly using infinite limit processes. Their goal is to determine just how similar or different these abstract spaces are from those which are finitely described. However, as topology is usually taught, even the first more concrete type of problem is approached using the language and methods of the second type. Professor Brumfiel's thesis is that this is unnecessary and in fact misleading philosophically. He develops a type of algebra: partially ordered rings in which it makes sense to talk about solutions of equations and inequalities and to compare geometrically the resulting spaces. The importance of this approach is primarily that it clarifies the sort of geometrical questions one wants to ask and answer about those spaces which might have physical significance. *Rings of Separated Power Series and Quasi-affinoid Geometry* Leonard Lipshitz, Zachary Robinson, 2000

Buchsbaum Rings and Applications Jürgen Stückrad, Wolfgang Vogel, 2014-08-23 Da die algebraische Geometrie wesentlich vom Fundamentalsatz der Algebra ausgeht, den man nur deshalb in der gewohnten allgemeinen Form aussprechen kann, weil man dabei die Vielfachheit der Lösungen in Betracht zieht, so muß man auch bei jedem Resultat der algebraischen Geometrie beim Zurückschreiten die gemeinsame Quelle wiederfinden. Das wäre aber nicht mehr möglich, wenn man auf dem Wege das Werkzeug verlor, welches den Fundamentalsatz fruchtbar und bedeutungsreich macht. Francesco Severi, *Abh. Math. Sem. Hansischen Univ.* 15, 1943, p. 100. This book describes interactions between algebraic geometry, commutative and homological algebra, algebraic topology, and combinatorics. The main objects of study are Buchsbaum rings. The basic underlying idea of a Buchsbaum ring is a continuation of the well-known concept of a Cohen-Macaulay ring, its necessity being created by open questions of algebraic geometry and algebraic topology. The theory of Buchsbaum rings started from a negative answer to a problem of David A. Buchsbaum. The concept of this theory was introduced in our joint paper published in 1973.

Determinantal Rings Winfried Bruns, Udo Vetter, 2006-11-14 Determinantal rings and varieties have been a central topic of commutative algebra and algebraic geometry. Their study has attracted many prominent researchers and has motivated the creation of theories which may now be considered part of general commutative ring theory. The book gives a first coherent treatment of the structure of determinantal rings. The main approach is via the theory of algebras with straightening law. This approach suggests and is simplified by the simultaneous treatment of the Schubert subvarieties of Grassmannian. Other methods have not been neglected; however, principal radical systems are discussed in detail and one section is devoted to each of invariant and representation theory. While the book is primarily a research monograph, it serves also as a reference source and the reader requires only the basics of commutative algebra together with some supplementary material found in the appendix. The text may be useful for seminars following a course in commutative ring theory since a vast number of

notions results and techniques can be illustrated significantly by applying them to determinantal rings *Algebraic Geometry Over $C[\text{infinity}]$ -rings* Dominic D. Joyce,2019 *Geometric Algebra Over Local Rings* Bernard R. McDonald,1976

Geospatial Computational Methods John N. Hatzopoulos,Nikolaos J. Hatzopoulos,2024-05-01 This book is for students and professionals involved in Geospatial Computations and related areas such as Geomatics Surveying Engineering Geoinformatics Geospatial Information Science and Technology GIS T Geography Geology Agriculture and Geointelligence More emphasis is given to using scientific methods and tools materialized in algorithms and software to produce practical results Specifically algorithms such as error analysis of measurements and the least squares adjustment method to obtain ground coordinates of points with their reliability to construct the geometric framework of the geographical space necessary for various geospatial applications such as a Geographic Information System GIS are discussed Other algorithms involve interpolation methods for DEM and spatial data analysis Furthermore such algorithms in the geospatial area are basic surveying methods using a total station photogrammetry digital terrain modeling GNSS augmented reality coordinate transformations map projections and interpolation Most algorithms are implemented into 27 educational computer programs and necessary data to understand GIS T operations from the inside with a didactics approach targeting to become more intelligent than machines The educational programs include general photogrammetric operations with aerial photography and drones 3 D surveying network adjustment GNSS navigation solutions and many others This approach helps to obtain high quality scientific and technological bases which in turn enhance the ability to exploit and use most tools and functions of existing GIS T systems and therefore to be highly competitive as a professional in the market This book has ten chapters such as Measurements and Errors Estimation and Accuracy Standards Specialized Numerical Methods Error Propagation Least Squares Adjustment Condition Method and Generalized Least Squares Applications to Map Projections and Transformation of Coordinates Applications to Surveying Networks Applications of Computational Methods in Photogrammetry Digital Elevation Models DEM Computer Programming Scripting AI **New Spaces in Mathematics: Volume 1** Mathieu Anel,Gabriel Catren,2021-04-01 After the development of manifolds and algebraic varieties in the previous century mathematicians and physicists have continued to advance concepts of space This book and its companion explore various new notions of space including both formal and conceptual points of view as presented by leading experts at the New Spaces in Mathematics and Physics workshop held at the Institut Henri Poincaré in 2015 The chapters in this volume cover a broad range of topics in mathematics including diffeologies synthetic differential geometry microlocal analysis topos theory infinity groupoids homotopy type theory category theoretic methods in geometry stacks derived geometry and noncommutative geometry It is addressed primarily to mathematicians and mathematical physicists but also to historians and philosophers of these disciplines *Algebraic Geometry over C^∞ -Rings* Dominic Joyce,2019-09-05 If X is a manifold then the R algebra $C(X)$ of smooth functions $c(X) \rightarrow R$ is a C ring That is for each smooth function $f \in R^n \rightarrow R$ there is an n fold operation $f \in C(X)^n \rightarrow C(X)$ acting by f

$C[X]$ and these operations f satisfy many natural identities. Thus $C[X]$ actually has a far richer structure than the obvious R algebra structure. The author explains the foundations of a version of algebraic geometry in which rings or algebras are replaced by C rings. As schemes are the basic objects in algebraic geometry, the new basic objects are C schemes, a category of geometric objects which generalize manifolds and whose morphisms generalize smooth maps. The author also studies quasicoherent sheaves on C schemes and C stacks, in particular Deligne-Mumford C stacks, a 2-category of geometric objects generalizing orbifolds. Many of these ideas are not new: C rings and C schemes have long been part of synthetic differential geometry. But the author develops them in new directions. In earlier publications, the author used these tools to define d -manifolds and d -orbifolds, derived versions of manifolds and orbifolds related to Spivak's derived manifolds.

Polynomial Rings and Affine Algebraic Geometry Shigeru Kuroda, Nobuharu Onoda, Gene Freudenburg, 2020. This proceedings volume gathers together selected peer-reviewed works presented at the Polynomial Rings and Affine Algebraic Geometry conference which was held at the Tokyo Metropolitan University on February 12-26, 2018, in Tokyo, Japan. In this book, the reader will find some of the latest research conducted by an international group of experts in affine and projective algebraic geometry. Topics covered include group actions and linearization, automorphism groups and their structure as infinite-dimensional varieties, invariant theory, the Cancellation Problem, the Embedding Problem, Mathieu spaces, and the Jacobian Conjecture, the Dolgachev-Weisfeiler Conjecture, classification of curves and surfaces, real forms of complex varieties, and questions of rationality, unirationality, and birationality. The articles contained in this volume will be of interest to all researchers and graduate students working in the fields of affine and projective algebraic geometry, as well as in certain aspects of commutative algebra, Lie theory, symplectic geometry, and Stein manifolds.

Applications of Commutative Rings to Algebraic Geometry, 1980

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