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A Series of Modern Surveys in Mathematics

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William Fulton

# Intersection Theory



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# Fulton Intersection Theory

**William Fulton**



## **Fulton Intersection Theory:**

**Intersection Theory** William Fulton, 2012-12-06 From the ancient origins of algebraic geometry in the solutions of polynomial equations through the triumphs of algebraic geometry during the last two centuries intersection theory has played a central role The aim of this book is to develop the foundations of this theory and to indicate the range of classical and modern applications Although a comprehensive history of this vast subject is not attempted the author points out some of the striking early appearances of the ideas of intersection theory A suggested prerequisite for the reading of this book is a first course in algebraic geometry Fulton's introduction to intersection theory has been well used for more than 10 years It is still the only existing complete modern treatise of the subject and received the Steele Prize for best exposition in August 1996 *Intersection Theory* William Fulton, 1984 *Introduction to Intersection Theory in Algebraic Geometry* William Fulton, 1984 Introduces some of the main ideas of modern intersection theory traces their origins in classical geometry and sketches a few typical applications Suitable for graduate students in mathematics this book describes the construction and computation of intersection products by means of the geometry of normal cones **Intersection Theory** William Fulton, 1984 From the ancient origins of algebraic geometry in the solution of polynomial equations through the triumphs of algebraic geometry during the last two centuries intersection theory has played a central role Since its role in foundational crises has been no less prominent the lack of a complete modern treatise on intersection theory has been something of an embarrassment The aim of this book is to develop the foundations of intersection theory and to indicate the range of classical and modern applications Although a comprehensive history of this vast subject is not attempted we have tried to point out some of the striking early appearances of the ideas of intersection theory Recent improvements in our understanding not only yield a stronger and more useful theory than previously available but also make it possible to develop the subject from the beginning with fewer prerequisites from algebra and algebraic geometry It is hoped that the basic text can be read by one equipped with a first course in algebraic geometry with occasional use of the two appendices Some of the examples and a few of the later sections require more specialized knowledge The text is designed so that one who understands the constructions and grants the main theorems of the first six chapters can read other chapters separately Frequent parenthetical references to previous sections are included for such readers The summaries which begin each chapter should facilitate use as a reference *Intersection Theory* W. Fulton, 2014-01-15 **Recent Progress in Intersection Theory** Geir Ellingsrud, William Fulton, Angelo Vistoli, 2012-12-06 The articles in this volume are an outgrowth of an International Conference in Intersection Theory that took place in Bologna Italy December 1997 In a somewhat unorthodox format aimed at both the mathematical community as well as summer school students talks were research oriented as well as partly expository There were four series of expository talks by the following people M Brion University of Grenoble on Equivariant Chow groups and applications H Flenner University of Bochum on Joins and intersections E M Friedlander Northwestern University

on Intersection products for spaces of algebraic cycles R Laterveer University of Strasbourg on Bigraded Chow co homology

Four introductory papers cover the following topics and bring the reader to the forefront of research

- 1 the excess intersection algorithm of Stuckrad and Vogel combined with the deformation to the normal cone together with many of its geometric applications
- 2 new and very important homotopy theory techniques that are now used in intersection theory
- 3 the Bloch Beilinson filtration and the theory of motives
- 4 algebraic stacks the modern language of moduli theory

Other research articles concern such active fields as stable maps and Gromov Witten invariants deformation theory of complex varieties and others

Organizers of the conference were Rudiger Achilles Mirella Manaresi and Angelo Vistoli all from the University of Bologna the scientific committee consisted of Geir Ellingsrud University of Oslo William Fulton University of Michigan at Ann Arbor and Angelo Vistoli

The conference was financed by the European Union contract no **Enumerative geometry and intersection theory** Boudewijn Moonen,1988 **Recent Progress in Intersection Theory** Geir Ellingsrud,William Fulton,Angelo Vistoli,2000-01-01 *Introduction to Intersection Theory in Algebraic Geometry* Masamichi Takesaki,Tsit-Yuen Lam,Wilhelm Klingenberg,William Arveson,William Fulton,1983 *Introduction to Intersection Theory on Algebraic Geometry* William Fulton,1996 **Intersection Theory: Divisors** William Fulton,1998 **Introduction to Arakelov Theory** Serge Lang,2012-12-06

Arakelov introduced a component at infinity in arithmetic considerations thus giving rise to global theorems similar to those of the theory of surfaces but in an arithmetic context over the ring of integers of a number field The book gives an introduction to this theory including the analogues of the Hodge Index Theorem the Arakelov adjunction formula and the Faltings Riemann Roch theorem The book is intended for second year graduate students and researchers in the field who want a systematic introduction to the subject The residue theorem which forms the basis for the adjunction formula is proved by a direct method due to Kunz and Waldi The Faltings Riemann Roch theorem is proved without assumptions of semistability An effort has been made to include all necessary details and as complete references as possible especially to needed facts of analysis for Green s functions and the Faltings metrics Polytopes, Rings, and K-Theory Winfried Bruns,Joseph Gubeladze,2009-06-12 This book examines interactions of polyhedral discrete geometry and algebra What makes this book unique is the presentation of several central results in all three areas of the exposition from discrete geometry to commutative algebra and K theory *3264 and All That* David Eisenbud,Joe Harris,2016-04-14 This book can form the basis of a second course in algebraic geometry As motivation it takes concrete questions from enumerative geometry and intersection theory and provides intuition and technique so that the student develops the ability to solve geometric problems The authors explain key ideas including rational equivalence Chow rings Schubert calculus and Chern classes and readers will appreciate the abundant examples many provided as exercises with solutions available online

Intersection is concerned with the enumeration of solutions of systems of polynomial equations in several variables It has been an active area of mathematics since the work of Leibniz Chasles nineteenth century calculation that there are 3264

smooth conic plane curves tangent to five given general conics was an important landmark and was the inspiration behind the title of this book. Such computations were motivation for Poincaré's development of topology and for many subsequent theories so that intersection theory is now a central topic of modern mathematics.

**Algebraic K-Theory** Wayne Raskind, Charles A. Weibel, 1999. This volume presents the proceedings of the Joint Summer Research Conference on Algebraic K theory held at the University of Washington in Seattle. High quality surveys are written by leading experts in the field. Included is an up to date account of Voevodsky's proof of the Milnor conjecture relating the Milnor K theory of fields to Galois cohomology. The book is intended for graduate students and research mathematicians interested in K theory, algebraic geometry and number theory.

**Multidimensional Residue Theory and Applications** Alekos Vidras, Alain Yger, 2023-10-18. Residue theory is an active area of complex analysis with connections and applications to fields as diverse as partial differential and integral equations, computer algebra, arithmetic or diophantine geometry and mathematical physics. Multidimensional Residue Theory and Applications defines and studies multidimensional residues via analytic continuation for holomorphic bundle valued current maps. This point of view offers versatility and flexibility to the tools and constructions proposed, allowing these residues to be defined and studied outside the classical case of complete intersection. The book goes on to show how these residues are algebraic in nature and how they relate and apply to a wide range of situations, most notably to membership problems such as the Briançon-Skoda theorem and Hilbert's Nullstellensatz, to arithmetic intersection theory and to tropical geometry. This book will supersede the existing literature in this area which dates back more than three decades. It will be appreciated by mathematicians and graduate students in multivariate complex analysis. But thanks to the gentle treatment of the one dimensional case in Chapter 1 and the rich background material in the appendices, it may also be read by specialists in arithmetic, diophantine or tropical geometry as well as in mathematical physics or computer algebra.

Encyclopaedia of Mathematics M. Hazewinkel, 2013-11-11

**Handbook of K-Theory** Eric Friedlander, Daniel R. Grayson, 2005-07-18. This handbook offers a compilation of techniques and results in K theory. Each chapter is dedicated to a specific topic and is written by a leading expert. Many chapters present historical background, some present previously unpublished results, whereas some present the first expository account of a topic, many discuss future directions as well as open problems. It offers an exposition of our current state of knowledge as well as an implicit blueprint for future research.

**Encyclopaedia of Mathematics** Michiel Hazewinkel, 2013-12-01. This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics. It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985. The annotated translation consists of ten volumes including a special index volume. There are three kinds of articles in this ENCYCLOPAEDIA. First of all, there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used. The main requirement for these articles has been that they should give a reasonably

complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

**Bulletin of the American Mathematical Society ,2001**

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