

Commutative Algebra

Let A denote an \mathbb{R} -algebra, so that A is a vector space over \mathbb{R} and

$$A \times A \rightarrow A \tag{1}$$

$$(x, y) \mapsto x \cdot y. \tag{2}$$

Now define

$$Z \equiv \{x \in A : x \cdot y = 0 \text{ for some } y \in A \neq 0\}, \tag{3}$$

where $0 \in Z$. An **Associative** \mathbb{R} -algebra is commutative if $x \cdot y = y \cdot x$ for all $x, y \in A$.

Similarly, a **ring** is commutative if the **multiplication** operation is commutative, and a **Lie algebra** is commutative if the **commutator** $[A, B]$ is 0 for every A and B in the Lie algebra.

The term "commutative algebra" also refers to the branch of **abstract algebra** that studies **commutative rings**. Commutative algebra is important in **algebraic geometry**.

Commutative Algebra

Miles Reid



Commutative Algebra:

Commutative Algebra David Eisenbud, 2013-12-01 Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text

Steps in Commutative Algebra R. Y. Sharp, 2000 This introductory account of commutative algebra is aimed at advanced undergraduates and first year graduate students Assuming only basic abstract algebra it provides a good foundation in commutative ring theory from which the reader can proceed to more advanced works in commutative algebra and algebraic geometry The style throughout is rigorous but concrete with exercises and examples given within chapters and hints provided for the more challenging problems used in the subsequent development After reminders about basic material on commutative rings ideals and modules are extensively discussed with applications including to canonical forms for square matrices The core of the book discusses the fundamental theory of commutative Noetherian rings Affine algebras over fields dimension theory and regular local rings are also treated and for this second edition two further chapters on regular sequences and Cohen Macaulay rings have been added This book is ideal as a route into commutative algebra

Introduction To Commutative Algebra, Student Economy Edition Michael Atiyah, 2018-04-27 This book is designed to be read by students who have had a first elementary course in general algebra It provides a common generalization of the primes of arithmetic and the points of geometry The book explains the various elementary operations which can be performed on ideals

Introduction to Commutative Algebra and Algebraic Geometry Ernst Kunz, 1985 It has been estimated that at the present stage of our knowledge one could give a 200 semester course on commutative algebra and algebraic geometry without ever repeating himself So any introduction to this subject must be highly selective I first want to indicate what point of view guided the selection of material for this book This introduction arose from lectures for students who had taken a basic course in algebra and could therefore be presumed to have a knowledge of linear algebra ring and field theory and Galois theory The present text shouldn't require much more In the

lectures and in this text I have undertaken with the fewest possible auxiliary means to lead up to some recent results of commutative algebra and algebraic geometry concerning the representation of algebraic varieties as in intersections of the least possible number of hypersurfaces and a closely related problem with the most economical generation of ideals in Noetherian rings The question of the equations needed to describe an algebraic variety was addressed by Kronecker in 1882 In the 1940s it was chiefly Perron who was interested in this question his discussions with Severi made the problem known and contributed to sharpening the relevant concepts Thanks to the general progress of commutative algebra many beautiful results in this circle of questions have been obtained mainly after the solution of Serre's problem on projective modules Because of their relatively elementary character they are especially suitable for an introduction to commutative algebra

Undergraduate Commutative Algebra Miles Reid, 1995-11-30 Commutative algebra is at the crossroads of algebra number theory and algebraic geometry This textbook is affordable and clearly illustrated and is intended for advanced undergraduate or beginning graduate students with some previous experience of rings and fields Alongside standard algebraic notions such as generators of modules and the ascending chain condition the book develops in detail the geometric view of a commutative ring as the ring of functions on a space The starting point is the Nullstellensatz which provides a close link between the geometry of a variety V and the algebra of its coordinate ring $A_k(V)$ however many of the geometric ideas arising from varieties apply also to fairly general rings The final chapter relates the material of the book to more advanced topics in commutative algebra and algebraic geometry It includes an account of some famous pathological examples of Akizuki and Nagata and a brief but thought provoking essay on the changing position of abstract algebra in today's world

Commutative Algebra N. Bourbaki, 1998-08-03 This is the English translation of the first seven chapters of Bourbaki's *Algebre commutative* It provides a treatment of commutative algebra seeking to enable the reader to go on and study algebraic or arithmetic geometry

Commutative Algebra Oscar Zariski, Pierre Samuel, 2013-11-11 This second volume of our treatise on commutative algebra deals largely with three basic topics which go beyond the more or less classical material of volume I and are on the whole of a more advanced nature and a more recent vintage These topics are a valuation theory b theory of polynomial and power series rings including generalizations to graded rings and modules c local algebra Because most of these topics have either their source or their best motivation in algebraic geometry the algebro geometric connections and applications of the purely algebraic material are constantly stressed and abundantly scattered through out the exposition Thus this volume can be used in part as an introduction to some basic concepts and the arithmetic foundations of algebraic geometry The reader who is not immediately concerned with geometric applications may omit the algebro geometric material in a first reading see Instructions to the reader page vii but it is only fair to say that many a reader will find it more instructive to find out immediately what is the geometric motivation behind the purely algebraic material of this volume The first 8 sections of Chapter VI including 5bis deal directly with properties of places rather than with those of the valuation

associated with a place These therefore are properties of valuations in which the value group of the valuation is not involved

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An Introduction to Commutative Algebra and Number Theory Sukumar Das Adhikari, 2001-11 This is an elementary introduction to algebra and number theory The text begins by a review of groups rings and fields The algebra portion addresses polynomial rings UFD PID and Euclidean domains field extensions modules and Dedckind domains The number theory portion reviews elementary congruence quadratic reciprocity algebraic number fields and a glimpse into the various aspects of that subject This book could be used as a one semester course in graduate mathematics

Algebraic Geometry and Commutative Algebra Siegfried Bosch, 2012-11-15 Algebraic geometry is a fascinating branch of mathematics that combines methods from both algebra and geometry It transcends the limited scope of pure algebra by means of geometric construction principles Moreover Grothendieck s schemes invented in the late 1950s allowed the application of algebraic geometric methods in fields that formerly seemed to be far away from geometry like algebraic number theory The new techniques paved the way to spectacular progress such as the proof of Fermat s Last Theorem by Wiles and Taylor The scheme theoretic approach to algebraic geometry is explained for non experts More advanced readers can use the book to broaden their view on the subject A separate part deals with the necessary prerequisites from commutative algebra On a whole the book provides a very accessible and self contained introduction to algebraic geometry up to a quite advanced level Every chapter of the book is preceded by a motivating introduction with an informal discussion of the contents Typical examples and an abundance of exercises illustrate each section This way the book is an excellent solution for learning by yourself or for complementing knowledge that is already present It can equally be used as a convenient source for courses and seminars or as supplemental literature

A Singular Introduction to Commutative Algebra Gert-Martin Greuel, Gerhard Pfister, 2007-11-05 This substantially enlarged second edition aims to lead a further stage in the computational revolution in commutative algebra This is the first handbook tutorial to extensively deal with SINGULAR Among the book s most distinctive features is a new completely unified treatment of the global and local theories Another feature of the book is its breadth of coverage of theoretical topics in the portions of commutative algebra closest to algebraic geometry with algorithmic treatments of almost every topic

Computational Methods in Commutative Algebra and Algebraic Geometry Wolmer Vasconcelos, 2004-05-18 This ACM volume deals with tackling problems that can be represented by data structures which are essentially matrices with polynomial entries mediated by the disciplines of commutative algebra and algebraic geometry The discoveries stem from an interdisciplinary branch of research which has been growing steadily over the past decade The author covers a wide range from showing how to obtain deep heuristics in a computation of a ring a module or a morphism to developing means of solving nonlinear systems of equations highlighting the use of advanced techniques to bring down the cost of computation Although intended for advanced students

and researchers with interests both in algebra and computation many parts may be read by anyone with a basic abstract algebra course

(Mostly) Commutative Algebra Antoine Chambert-Loir, 2021-04-08 This book stems from lectures on commutative algebra for 4th year university students at two French universities Paris and Rennes At that level students have already followed a basic course in linear algebra and are essentially fluent with the language of vector spaces over fields The topics introduced include arithmetic of rings modules especially principal ideal rings and the classification of modules over such rings Galois theory as well as an introduction to more advanced topics such as homological algebra tensor products and algebraic concepts involved in algebraic geometry More than 300 exercises will allow the reader to deepen his understanding of the subject The book also includes 11 historical vignettes about mathematicians who contributed to commutative algebra

Combinatorics and Commutative Algebra Richard P. Stanley, 2007-12-13 Some remarkable connections between commutative algebra and combinatorics have been discovered in recent years This book provides an overview of two of the main topics in this area The first concerns the solutions of linear equations in nonnegative integers Applications are given to the enumeration of integer stochastic matrices or magic squares the volume of polytopes combinatorial reciprocity theorems and related results The second topic deals with the face ring of a simplicial complex and includes a proof of the Upper Bound Conjecture for Spheres An introductory chapter giving background information in algebra combinatorics and topology broadens access to this material for non specialists New to this edition is a chapter surveying more recent work related to face rings focusing on applications to f vectors

Combinatorial Commutative Algebra Ezra Miller, Bernd

Sturmfels, 2005-11-13 Combinatorial commutative algebra is an active area of research with thriving connections to other fields of pure and applied mathematics This book provides a self contained introduction to the subject with an emphasis on combinatorial techniques for multigraded polynomial rings semigroup algebras and determinantal rings The eighteen chapters cover a broad spectrum of topics ranging from homological invariants of monomial ideals and their polyhedral resolutions to hands on tools for studying algebraic varieties with group actions such as toric varieties flag varieties quiver loci and Hilbert schemes Over 100 figures 250 exercises and pointers to the literature make this book appealing to both graduate students and researchers

Commutative Algebra Aron Simis, 2023-08-07 The primary audience for this book is students and the young researchers interested in the core of the discipline Commutative algebra is by and large a self contained discipline which makes it quite dry for the beginner with a basic training in elementary algebra and calculus A stable mathematical discipline such as this enshrines a vital number of topics to be learned at an early stage more or less universally accepted and practiced Naturally authors tend to turn these topics into an increasingly short and elegant list of basic facts of the theory So the shorter the better However there is a subtle watershed between elegance and usefulness especially if the target is the beginner From my experience throughout years of teaching elegance and terseness do not do it except much later in the career To become useful the material ought to carry quite a bit of motivation through justification

and usefulness pointers On the other hand it is difficult to contemplate these teaching devices in the writing of a short book I have divided the material in three parts starting with more elementary sections then carrying an intermezzo on more difficult themes to make up for a smooth crescendo with additional tools and finally the more advanced part versing on a reasonable chunk of present day steering of commutative algebra Historic notes at the end of each chapter provide insight into the original sources and background information on a particular subject or theorem Exercises are provided and propose problems that apply the theory to solve concrete questions yes with concrete polynomials and so forth

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 2 focuses on the most recent research

Commutative Algebra - Proceedings Of The Workshop Giuseppe Valla, Ngo Viet Trung, Aron Simis, 1994-08-19 In a relatively short time commutative algebra has grown in many directions Over a period of nearly fifty years starting from the so called homological period till today the area has developed into a rich laboratory of methods structures and problem solving tools One could say a distinct modern trend of commutative algebra is a strong interaction with various aspects of Combinatorics and Computer Algebra This has resulted in a new sense of measuring for old assumptions and a better understanding of old results At the same time Invariant Theory and Algebraic Geometry remain constituents of an everlasting classical source responsible for important themes that have been developed in Commutative Algebra such as deformation linkage algebraic tori and determinantal rings etc This volume of proceedings is well entrenched on the lines of development outlined above As such it aims to keep researchers and mathematicians well informed of the developments in the field

Commutative Algebra and Algebraic Geometry Freddy Van Oystaeyen, 1999-03-31 Contains contributions by over 25 leading international mathematicians in the areas of commutative algebra and algebraic geometry The text presents developments and results based on and inspired by the work of Mario Fiorentini It covers topics ranging from almost numerical invariants of algebraic curves to deformation of projective schemes

Commutative Algebra Andrea Ferretti, 2023-09-26 This book provides an introduction to classical methods in commutative algebra and their applications to number theory algebraic geometry and computational algebra The use of number theory as a motivating theme throughout the book provides a rich and interesting context for the material covered In addition many results are reinterpreted from a geometric perspective providing further insight and motivation for the study of commutative algebra The content covers the classical theory of Noetherian rings including primary decomposition and dimension theory topological methods such as completions computational techniques local methods and multiplicity theory as well as some topics of a more arithmetic nature including the theory of Dedekind rings lattice embeddings and Witt vectors Homological methods appear in the author's sequel *Homological Methods in Commutative Algebra* Overall this book is an excellent resource for advanced undergraduates and beginning graduate students in algebra

or number theory It is also suitable for students in neighboring fields such as algebraic geometry who wish to develop a strong foundation in commutative algebra Some parts of the book may be useful to supplement undergraduate courses in number theory computational algebra or algebraic geometry The clear and detailed presentation the inclusion of computational techniques and arithmetic topics and the numerous exercises make it a valuable addition to any library

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