

# Commutative Property

Changing the order of terms in an expression does not change its value.

Addition

$$a+b+c = a+c+b = b+a+c = b+c+a = c+a+b = c+b+a$$

Multiplication

$$abc = acb = bac = bca = cab = cba$$

This property works for addition and multiplication,  
but not for subtraction and division.

$$a - b \neq b - a$$

$$a/b \neq b/a$$

# Commutative Algebra

**J. William Hoffman, Xiaohong  
Jia, Haohao Wang**



## **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

**Algebraic Geometry and Commutative Algebra** Siegfried Bosch, 2022-04-22 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 Putting forward this idea Grothendieck revolutionized Algebraic Geometry in the late 1950s by inventing schemes Schemes now also play an important role in Algebraic Number Theory a field that used to be far away from Geometry The new point of view paved the way for spectacular progress such as the proof of Fermat's Last Theorem by Wiles and Taylor This book explains the scheme theoretic approach to Algebraic Geometry for non experts while more advanced readers can use it to broaden their view on the subject A separate part presents the necessary prerequisites from Commutative Algebra thereby providing an accessible and self contained introduction to advanced Algebraic Geometry Every chapter of the book is preceded by a motivating

introduction with an informal discussion of its contents and background Typical examples and an abundance of exercises illustrate each section Therefore the book is an excellent companion for self studying or for complementing skills that have already been acquired It can just as well serve as a convenient source for reading course material and in any case as supplementary literature The present edition is a critical revision of the earlier text     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     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 geom etry 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 introduc tion 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     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     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

**Introduction To Algebraic Geometry And Commutative Algebra** Dilip P Patil,Uwe Storch,2010-03-31 This introductory textbook for a graduate course in pure mathematics provides a gateway into the two difficult fields of algebraic geometry and commutative algebra Algebraic geometry supported fundamentally by commutative algebra is a cornerstone of pure mathematics Along the lines developed by Grothendieck this book delves into the rich interplay between algebraic geometry and commutative algebra A selection is made from the wealth of material in the discipline along with concise yet clear definitions and synopses

**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 Dedekind 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

**Analytic Methods in Commutative Algebra** Richard N. Draper,1982-04-28 **Commutative Algebra, Algebraic Geometry, and Computational Methods** David Eisenbud,1999-07 This volume contains papers presented at the International Conference on Commutative Algebra Algebraic geometry and Computational methods held in Hanoi in 1996 as well as papers written subsequently It features both expository articles as well as research papers on a range of currently active areas in commutative algebra algebraic geometry particularly surveys on intersection theory and combinatorics In addition a special feature is a section on the life and work of Wolfgang Vogel who was an organiser of the conference

**Three Lectures on Commutative Algebra** Holger Brenner,Jürgen Herzog,Orlando E. Villamayor,2008 These lectures provides detailed introductions to some of the latest advances in three significant areas of rapid development in commutative algebra and its applications tight closure and vector bundles combinatorics and commutative algebra constructive desingularization

**Introduction to Commutative Algebra and Algebraic Geometry** Ernst Kunz,2012-11-06 Originally published in 1985 this classic textbook is an English translation of Einführung in die kommutative Algebra und algebraische Geometrie As part of the Modern Birkhäuser Classics series the publisher is proud to make Introduction to Commutative Algebra and Algebraic Geometry available to a wider audience Aimed at students who have taken a basic course in algebra the goal of the text is to present important results concerning the representation of algebraic varieties as intersections of the least possible number of hypersurfaces and a closely related problem with the most economical generation of ideals in

Noetherian rings Along the way one encounters many basic concepts of commutative algebra and algebraic geometry and proves many facts which can then serve as a basic stock for a deeper study of these subjects     [A Singular Introduction to Commutative Algebra](#) Gert-Martin Greuel, Gerhard Pfister, 2012-12-06 In theory there is no difference between theory and practice In practice there is Yogi Berra A SINGULAR Introduction to Commutative Algebra offers a rigorous introduction to commutative algebra and at the same time provides algorithms and computational practice In this book we do not separate the theoretical and the computational part Coincidentally as new concepts are introduced it is consequently shown by means of concrete examples and general procedures how these concepts are handled by a computer We believe that this combination of theory and practice will provide not only a fast way to enter a rather abstract field but also a better understanding of the theory showing concurrently how the theory can be applied We exemplify the computational part by using the computer algebra system SINGULAR a system for polynomial computations which was developed in order to support mathematical research in commutative algebra algebraic geometry and singularity theory As the restriction to a specific system is necessary for such an exposition the book should be useful also for users of other systems such as Macaulay2 and CoCoA with similar goals Indeed once the algorithms and the method of their application in one system is known it is usually not difficult to transfer them to another system     *Commutative Algebra* J. William Hoffman, Xiaohong Jia, Haohao Wang, 2016-05-27 No detailed description available for Commutative Algebra     [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** Hideyuki Matsumura, 1970     *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 **(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 **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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