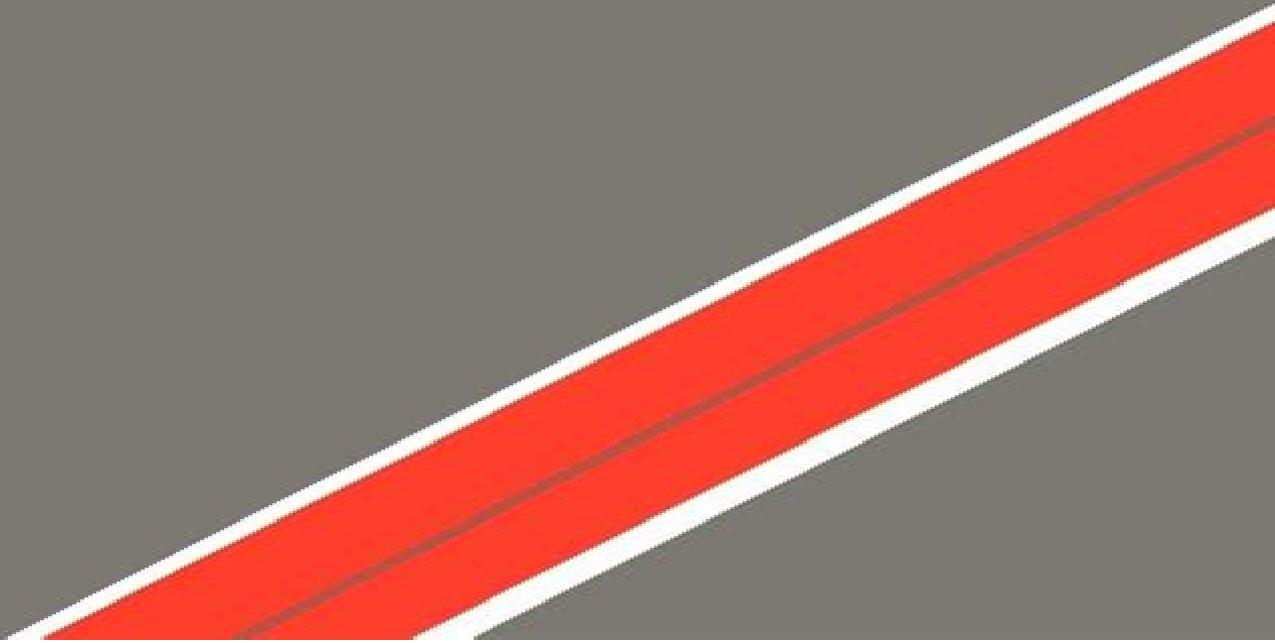


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Commutative Ring Theory

Irving Kaplansky



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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

Advances in Commutative Ring Theory David Dobbs, 2023-08-25 Presents the proceedings of the recently held Third International Conference on Commutative Ring Theory in Fez Morocco Details the latest developments in commutative algebra and related areas featuring 26 original research articles and six survey articles on fundamental topics of current interest Examines wide ranging developments in commutative algebra together with connections to algebraic number theory and algebraic geometry

Commutative Ring Theory Paul-Jean Cahen, Douglas L. Costa, Marco Fontana, Sarah-Eddine Kabbaj, 2023-06-14 Exploring commutative algebra s connections with and applications to topological algebra and algebraic geometry Commutative Ring Theory covers the spectra of rings chain conditions dimension theory and Jaffard rings fiber products group rings semigroup rings and graded rings class groups linear groups integer valued polynomials rings of finite fractions big Cohen Macaulay modules and much more

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

commutative ring theory Paul-Jean Cahen, Marco Fontana, Evan Houston, Salah-Eddine Kabbaj, 1996-10-22 Presents the proceedings of the Second International Conference on Commutative Ring Theory in Fes Morocco The text details developments in commutative algebra highlighting the theory of rings and ideals It explores commutative algebra s connections with and applications to topological algebra and algebraic geometry

Commutative Ring Theory Maurice Auslander, 1970*

Commutative Ring Theory and Applications Marco Fontana, Salah-Eddine Kabbaj, Sylvia Wiegand, 2017-07-27 Featuring presentations from the Fourth International Conference on Commutative Algebra held in Fez Morocco this reference presents trends in the growing area of commutative algebra With contributions from nearly 50 internationally renowned researchers the book emphasizes innovative applications and connections to algebraic number theory geome

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

Non-Noetherian Commutative Ring Theory S.T. Chapman, Sarah Glaz, 2000-10-31 This volume consists of twenty one articles by many of the most prominent researchers in non Noetherian commutative ring theory The articles combine in various degrees surveys of past results recent results that have never before seen print open problems and an extensive bibliography One hundred open problems supplied by the authors have been collected in the volume's concluding chapter The entire collection provides a comprehensive survey of the development of the field over the last ten years and points to future directions of research in the area Audience Researchers and graduate students the volume is an appropriate source of material for several semester long graduate level seminars and courses

Finite Commutative Rings and Their Applications Gilberto Bini, Flaminio Flamini, 2012-12-06 Foreword by Dieter Jungnickel Finite Commutative Rings and their Applications answers a need for an introductory reference in finite commutative ring theory as applied to information and communication theory This book will be of interest to both professional and academic researchers in the fields of communication and coding theory The book is a concrete and self contained introduction to finite commutative local rings focusing in particular on Galois and Quasi Galois rings The reader is provided with an active and concrete approach to the study of the purely algebraic structure and properties of finite commutative rings in particular Galois rings as well as to their applications to coding theory Finite Commutative Rings and their Applications is the first to address both theoretical and practical aspects of finite ring theory The authors provide a practical approach to finite rings through explanatory examples thereby avoiding an abstract presentation of the subject The section on Quasi Galois rings presents new and unpublished results as well The authors then introduce some applications of finite rings in particular Galois rings to coding theory using a solid algebraic and geometric theoretical background

Foundations of Commutative Rings and Their Modules Fanguai Wang, Hwankoo Kim, 2017-01-06 This book provides an

introduction to the basics and recent developments of commutative algebra A glance at the contents of the first five chapters shows that the topics covered are ones that usually are included in any commutative algebra text However the contents of this book differ significantly from most commutative algebra texts namely its treatment of the Dedekind Mertens formula the small finitistic dimension of a ring Gorenstein rings valuation overrings and the valuative dimension and Nagata rings Going further Chapter 6 presents w modules over commutative rings as they can be most commonly used by torsion theory and multiplicative ideal theory Chapter 7 deals with multiplicative ideal theory over integral domains Chapter 8 collects various results of the pullbacks especially Milnor squares and D M constructions which are probably the most important example generating machines In Chapter 9 coherent rings with finite weak global dimensions are probed and the local ring of weak global dimension two is elaborated on by combining homological tricks and methods of star operation theory Chapter 10 is devoted to the Grothendieck group of a commutative ring In particular the Bass Quillen problem is discussed Finally Chapter 11 aims to introduce relative homological algebra especially where the related concepts of integral domains which appear in classical ideal theory are defined and investigated by using the class of Gorenstein projective modules Each section of the book is followed by a selection of exercises of varying degrees of difficulty This book will appeal to a wide readership from graduate students to academic researchers who are interested in studying commutative algebra

Two topics in commutative ring theory Andrew J. Duncan, 1988 **Commutative Ring Theory** Hideyuki Matsumura, 1989

Commutative Rings Irving Kaplansky, 1966 **Ring and Module Theory** Toma Albu, Gary F. Birkenmeier, Ali Erdogan, Adnan Tercan, 2011-02-04 This book is a collection of invited papers and articles many presented at the 2008 International Conference on Ring and Module Theory The papers explore the latest in various areas of algebra including ring theory module theory and commutative algebra Introduction To Commutative Algebra Michael Atiyah, 1994-02-21 This book grew out of a course of lectures given to third year undergraduates at Oxford University and it has the modest aim of producing a rapid introduction to the subject It is designed to be read *Advances in Non-Commutative Ring Theory* P. J. Fleury, 2014-01-15 **Foundations of Commutative Ring Theory** Fanggui, JONES & BARTLETT LEARNING, 2013

Non-Commutative Ring Theory Surender K. Jain, Sergio R. Lopez-Permouth, 2014-01-15 Linear Algebra over Commutative Rings Bernard R. McDonald, 2020-11-26 This monograph arose from lectures at the University of Oklahoma on topics related to linear algebra over commutative rings It provides an introduction of matrix theory over commutative rings The monograph discusses the structure theory of a projective module

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