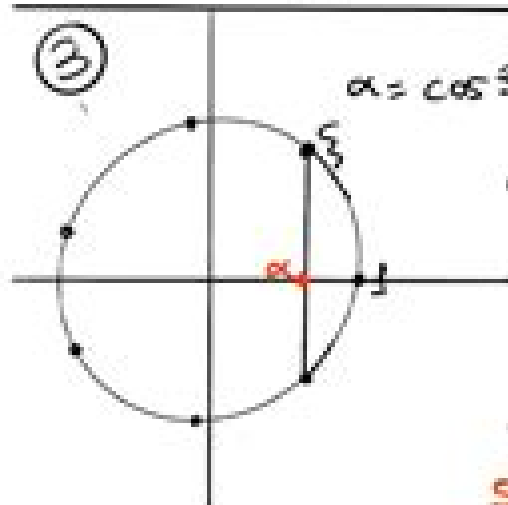


$$\omega = \frac{-1 + \sqrt{3}i}{2}, \omega^3 = 1$$

$$\mathbb{Q} \subseteq \mathbb{Q}(\omega) \subseteq \mathbb{Q}(\omega, \omega^2)$$

③



$\alpha = \cos \frac{2\pi}{4}$ is ALGEBRAIC

$$\alpha = \frac{\xi + \xi^{-1}}{2} \text{ where } \xi = e^{2\pi i/4} = \cos \frac{2\pi}{4} + i \sin \frac{2\pi}{4}$$

the seven roots of unity

$$e^{2\pi i/4} + e^{-2\pi i/4} = 2 \cos \frac{2\pi}{4} \Rightarrow \xi + \xi^{-1} = 2\alpha$$

$\xi^4 = 1 \leftarrow$ This is not irreducible on \mathbb{Q} , 1 is a root

$$\xi^4 - 1 = (\xi - 1)(\xi^3 + \xi^2 + \xi + 1)$$

Since $\xi \neq 1$

$$\xi^3 + \xi^2 + \xi + 1 = 0 \xrightarrow{\div \xi^3} \xi^3 + \xi^2 + \xi + 1 + \xi^{-1} + \xi^{-2} + \xi^{-3} = 0$$

$$(a^3 + b^3) = (a+b)^3 - 3ab(a+b), \quad 2\alpha = (\xi + \xi^{-1}) \rightarrow (2\alpha)^3$$

$$3(\xi + \xi^{-1})(\xi - \xi^{-1})$$

$$(a^2 + b^2) = (a^2 + b^2) - 2ab \rightarrow (2\alpha)^2$$

$$(2\alpha)$$

$$(2\alpha^0)$$

$$(2\alpha)^3 + (2\alpha)^2 - 2(2\alpha) - 1$$

$$8\alpha^3 + 4\alpha^2 - 4\alpha - 1$$

Algebraic Extensions Of Fields

Paul J. McCarthy



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Infinite Algebraic Extensions of Finite Fields Joel V. Brawley, George E. Schnibben, 1989 Over the last several decades there has been a renewed interest in finite field theory partly as a result of important applications in a number of diverse areas such as electronic communications coding theory combinatorics designs finite geometries cryptography and other portions of discrete mathematics In addition a number of recent books have been devoted to the subject Despite the resurgence in interest it is not widely known that many results concerning finite fields have natural generalizations to arbitrary algebraic extensions of finite fields The purpose of this book is to describe these generalizations After an introductory chapter surveying pertinent results about finite fields the book describes the lattice structure of fields between the finite field $\text{GF } q$ and its algebraic closure Γq The authors introduce a notion due to Steinitz of an extended positive integer N which includes each ordinary positive integer n as a special case With the aid of these Steinitz numbers the algebraic extensions of $\text{GF } q$ are represented by symbols of the form $\text{GF } q N$ When N is an ordinary integer n this notation agrees with the usual notation $\text{GF } q n$ for a dimension n extension of $\text{GF } q$ The authors then show that many of the finite field results concerning $\text{GF } q n$ are also true for $\text{GF } q N$ One chapter is devoted to giving explicit algorithms for computing in several of the infinite fields $\text{GF } q N$ using the notion of an explicit basis for $\text{GF } q N$ over $\text{GF } q$ Another chapter considers polynomials and polynomial like functions on $\text{GF } q N$ and contains a description of several classes of permutation polynomials including the q polynomials and the Dickson polynomials Also included is a brief chapter describing two of many potential applications Aimed at the level of a beginning graduate student or advanced undergraduate this book could serve well as a supplementary text for a course in finite field theory

Field Extensions and Galois Theory Julio R. Bastida, 1984-12-28 This 1984 book aims to make the general theory of field extensions accessible to any reader with a modest background in groups rings and vector spaces Galois theory is regarded amongst the central and most beautiful parts of algebra and its creation marked the culmination of generations of investigation

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Algebra Thomas W. Hungerford, 2012-12-06 Algebra fulfills a definite need to provide a self contained one volume graduate level algebra text that is readable by the average graduate student and flexible enough to

accommodate a wide variety of instructors and course contents The guiding philosophical principle throughout the text is that the material should be presented in the maximum usable generality consistent with good pedagogy Therefore it is essentially self contained stresses clarity rather than brevity and contains an unusually large number of illustrative exercises The book covers major areas of modern algebra which is a necessity for most mathematics students in sufficient breadth and depth

Local Fields Jean-Pierre Serre, 2013-05-31 The goal of this book is to present local class field theory from the cohomological point of view following the method inaugurated by Hochschild and developed by Artin Tate This theory is about extensions primarily abelian of local i.e complete for a discrete valuation fields with finite residue field For example such fields are obtained by completing an algebraic number field that is one of the aspects of localisation The chapters are grouped in parts There are three preliminary parts the first two on the general theory of local fields the third on group cohomology Local class field theory strictly speaking does not appear until the fourth part Here is a more precise outline of the contents of these four parts The first contains basic definitions and results on discrete valuation rings Dedekind domains which are their globalisation and the completion process The prerequisite for this part is a knowledge of elementary notions of algebra and topology which may be found for instance in Bourbaki The second part is concerned with ramification phenomena different discriminant ramification groups Artin representation Just as in the first part no assumptions are made here about the residue fields It is in this setting that the norm map is studied I have expressed the results in terms of additive polynomials and of multiplicative polynomials since using the language of algebraic geometry would have led me too far astray

Algebraic Curves over a Finite Field J. W. P. Hirschfeld, Gabor Korchmaros, Fernando Torres, 2013-03-25 This book provides an accessible and self contained introduction to the theory of algebraic curves over a finite field a subject that has been of fundamental importance to mathematics for many years and that has essential applications in areas such as finite geometry number theory error correcting codes and cryptology Unlike other books this one emphasizes the algebraic geometry rather than the function field approach to algebraic curves The authors begin by developing the general theory of curves over any field highlighting peculiarities occurring for positive characteristic and requiring of the reader only basic knowledge of algebra and geometry The special properties that a curve over a finite field can have are then discussed The geometrical theory of linear series is used to find estimates for the number of rational points on a curve following the theory of Stürm and Voloch The approach of Hasse and Weil via zeta functions is explained and then attention turns to more advanced results a state of the art introduction to maximal curves over finite fields is provided a comprehensive account is given of the automorphism group of a curve and some applications to coding theory and finite geometry are described The book includes many examples and exercises It is an indispensable resource for researchers and the ideal textbook for graduate students

Field Theory Steven Roman, 2013-12-20 Intended for graduate courses or for independent study this book presents the basic theory of fields The first part begins with a discussion of polynomials over a ring the division

algorithm irreducibility field extensions and embeddings The second part is devoted to Galois theory The third part of the book treats the theory of binomials The book concludes with a chapter on families of binomials the Kummer theory

Local Fields and Their Extensions: Second Edition Ivan B. Fesenko, S. V. Vostokov, 2002-07-17 This book offers a modern exposition of the arithmetical properties of local fields using explicit and constructive tools and methods It has been ten years since the publication of the first edition and according to Mathematical Reviews 1 000 papers on local fields have been published during that period This edition incorporates improvements to the first edition with 60 additional pages reflecting several aspects of the developments in local number theory The volume consists of four parts elementary properties of local fields class field theory for various types of local fields and generalizations explicit formulas for the Hilbert pairing and Milnor groups of fields and of local fields The first three parts essentially simplify revise and update the first edition The book includes the following recent topics Fontaine Wintenberger theory of arithmetically profinite extensions and fields of norms explicit noncohomological approach to the reciprocity map with a review of all other approaches to local class field theory Fesenko's class field theory for local fields with perfect residue field simplified updated presentation of Vostokov's explicit formulas for the Hilbert norm residue symbol and Milnor groups of local fields Numerous exercises introduce the reader to other important recent results in local number theory and an extensive bibliography provides a guide to related areas

Algebra Serge Lang, 2005-06-21 This book is intended as a basic text for a one year course in algebra at the graduate level or as a useful reference for mathematicians and professionals who use higher level algebra This book successfully addresses all of the basic concepts of algebra For the new edition the author has added exercises and made numerous corrections to the text From MathSciNet's review of the first edition The author has an impressive knack for presenting the important and interesting ideas of algebra in just the right way and he never gets bogged down in the dry formalism which pervades some parts of algebra

Algebra II N. Bourbaki, 2013-12-01 This is a softcover reprint of the English translation of 1990 of the revised and expanded version of Bourbaki's *Algebra* Chapters 4 to 7 1981 This completes *Algebra I* to 3 by establishing the theories of commutative fields and modules over a principal ideal domain Chapter 4 deals with polynomials rational fractions and power series A section on symmetric tensors and polynomial mappings between modules and a final one on symmetric functions have been added Chapter 5 was entirely rewritten After the basic theory of extensions prime fields algebraic algebraically closed radical extension separable algebraic extensions are investigated giving way to a section on Galois theory Galois theory is in turn applied to finite fields and abelian extensions The chapter then proceeds to the study of general non algebraic extensions which cannot usually be found in textbooks p -bases transcendental extensions separability criteria regular extensions Chapter 6 treats ordered groups and fields and based on it is Chapter 7 modules over a PID studies of torsion modules free modules finite type modules with applications to abelian groups and endomorphisms of vector spaces Sections on semi simple endomorphisms and Jordan decomposition have been added

Chapter IV Polynomials and Rational Fractions Chapter V Commutative Fields Chapter VI Ordered Groups and Fields Chapter VII Modules Over Principal Ideal Domains Basic Algebra Anthony W. Knap, 2007-07-28 Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician whether pure or applied aspiring or established Together the two books give the reader a global view of algebra and its role in mathematics as a whole The presentation includes blocks of problems that introduce additional topics and applications to science and engineering to guide further study Many examples and hundreds of problems are included along with a separate 90 page section giving hints or complete solutions for most of the problems Theory of Commutative Fields Masayoshi Nagata, The theory of commutative fields is a fundamental area of mathematics particularly in number theory algebra and algebraic geometry However few books provide sufficient treatment of this topic The author aimed to provide an introduction to commutative fields that would be useful to those studying the topic for the first time as well as to those wishing a reference book The book presents with as few prerequisites as possible all of the important and fundamental results on commutative fields Each chapter ends with exercises making the book suitable as a textbook for graduate courses or for independent study

Abstract Algebra Pierre Antoine Grillet, 2007-07-21 About the first edition The text is geared to the needs of the beginning graduate student covering with complete well written proofs the usual major branches of groups rings fields and modules n one of the material one expects in a book like this is missing and the level of detail is appropriate for its intended audience Alberto Delgado MathSciNet This text promotes the conceptual understanding of algebra as a whole and that with great methodological mastery Although the presentation is predominantly abstract it nevertheless features a careful selection of important examples together with a remarkably detailed and strategically skillful elaboration of the more sophisticated abstract theories Werner Kleinert Zentralblatt For the new edition the author has completely rewritten the text reorganized many of the sections and even cut or shortened material which is no longer essential He has added a chapter on Ext and Tor as well as a bit of topology **Algebra** B.L. van der Waerden, Emil Artin, Emmy Noether, 2003-10-21 Based in part on lectures by E Artin and E Noether Fields and Rings Irving Kaplansky, 1972 This book combines in one volume Irving Kaplansky's lecture notes on the theory of fields ring theory and homological dimensions of rings and modules In all three parts of this book the author lives up to his reputation as a first rate mathematical stylist Throughout the work the clarity and precision of the presentation is not only a source of constant pleasure but will enable the neophyte to master the material here presented with dispatch and ease A Rosenberg Mathematical Reviews *Essentials of Abstract Algebra* Sachin Nambeesan, 2025-02-20 Essentials of Abstract Algebra offers a deep exploration into the fundamental structures of algebraic systems Authored by esteemed mathematicians this comprehensive guide covers groups rings fields and vector spaces unraveling their intricate properties and interconnections We introduce groups exploring their diverse types from finite to infinite and abelian to non abelian with concrete examples and rigorous proofs Moving beyond groups we delve into

rings explaining concepts like ideals homomorphisms and quotient rings The text highlights the relevance of ring theory in number theory algebraic geometry and coding theory We also navigate fields discussing field extensions Galois theory and algebraic closures and exploring connections between fields and polynomial equations Additionally we venture into vector spaces examining subspaces bases dimension and linear transformations Throughout the book we emphasize a rigorous mathematical foundation and intuitive understanding Concrete examples diagrams and exercises enrich the learning experience making abstract algebra accessible to students mathematicians and researchers Essentials of Abstract Algebra is a timeless resource for mastering the beauty and power of algebraic structures **Basic Algebra II** Nathan Jacobson, 2012-06-08 This classic text and standard reference comprises all subjects of a first year graduate level course including in depth coverage of groups and polynomials and extensive use of categories and functors 1989 edition *An Introduction to Homological Algebra* Charles A. Weibel, 1994 A portrait of the subject of homological algebra as it exists today

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