Abstract Algebra
Chapter 13 - Field Theory
David S. Dummit and Richard M. Foote

Solution Manual by positrón0802

Contents

13   Field Theory

§13.1   Basic Theory and Field Extensions

Exercise 1. Show that $p(x) = x^3 + 9x + 6$ is irreducible in $\mathbb{Q}[x]$. Let θ be a root of $p(x)$. Find the inverse of $1 + \theta \in \mathbb{Q}(\theta)$.

Solution: $p(x) = x^3 + 9x + 6$ is irreducible in $\mathbb{Z}[x]$ by Eisenstein Criterion with $p = 3$. By Gauss Lemma, then it is irreducible in $\mathbb{Q}[x]$. To find $(1 + \theta)^{-1}$, we apply the Euclidean algorithm (long division) to $p(x)$ and $1 + x$. We find

$$x^3 + 9x + 6 = (1 + x)(x^2 - x + 10) - 4.$$

Evaluating at θ, we find $(1 + \theta)(\theta^2 - \theta + 10) = 4$. Therefore

$$(1 + \theta)^{-1} = \frac{\theta^2 - \theta + 10}{4}.$$

Exercise 2. Show that $x^3 - 2x - 2$ is irreducible over $\mathbb{Q}$ and let θ be a root. Compute $(1 + \theta)(1 + \theta + \theta^2)$ and $\dfrac{1 + \theta}{1 + \theta + \theta^2}$ in $\mathbb{Q}(\theta)$.

Solution: Let $f(x) = x^3 - 2x - 2$. f is irreducible over $\mathbb{Z}$ by Eisenstein Criterion with $p = 2$, hence over $\mathbb{Q}$ by Gauss Lemma. Now, if θ is a root of f, then $\theta^3 = 2\theta + 2$. Hence

$$(1 + \theta)(1 + \theta + \theta^2) = 1 + 2\theta + 2\theta^2 + \theta^3 = 3 + 4\theta + 2\theta^2.$$

For computing $\dfrac{1 + \theta}{1 + \theta + \theta^2}$, first we compute $(1 + \theta + \theta^2)^{-1}$. Applying the Euclidean algorithm, we obtain

$$x^3 - 2x - 2 = (x^2 + x + 1)(x - 1) - 2x - 1,$$

and

$$x^3 - 2x - 2 = (2x + 1)(\frac{x^2}{2} - \frac{x}{4} - \frac{7}{8}) - \frac{9}{8}.$$

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Jeffrey Hoffstein,Jill Pipher,Joseph H. Silverman

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   Abstract Algebra Manual Ayman Badawi,2004 This is the most current textbook in teaching the basic concepts of abstract algebra The author finds that there are many students who just memorise a theorem without having the ability to apply it to a given problem Therefore this is a hands on manual where many typical algebraic problems are provided for students to be able to apply the theorems and to actually practice the methods they have learned Each chapter begins with a statement of a major result in Group and Ring Theory followed by problems and solutions Contents Tools and Major Results of Groups Problems in Group Theory Tools and Major Results of Ring Theory Problems in Ring Theory Index   **Basic Abstract Algebra: Exercises And Solutions** Mohammed Hichem Mortad,2022-02-10 This book is mainly intended for first year University students who undertake a basic abstract algebra course as well as instructors It contains the basic notions of abstract algebra through solved exercises as well as a True or False section in each chapter Each chapter also contains an essential background section which makes the book easier to use   Introduction to Modern Algebra and Its Applications Nadiya Gubareni,2021-06-23 The book provides an introduction to modern abstract algebra and its applications It covers all major topics of classical theory of numbers groups rings fields and finite dimensional algebras The book also provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics In particular it considers algorithm RSA secret sharing algorithms Diffie Hellman Scheme and ElGamal cryptosystem based on discrete logarithm problem It also presents Buchberger s algorithm which is one of the important algorithms for constructing Gr bner basis Key Features Covers all major topics of classical theory of modern abstract algebra such as groups rings and fields and their applications In addition it provides the introduction to the number theory theory of finite fields finite dimensional algebras and their applications Provides interesting and important modern applications in such subjects as Cryptography Coding Theory Computer Science and Physics Presents numerous examples illustrating the theory and applications It is also filled with a number of exercises of various difficulty Describes in detail the construction of the Cayley Dickson construction for finite dimensional algebras in particular algebras of quaternions and octonions and gives their applications in the number theory and computer graphics   Positive Solutions to Indefinite Problems Guglielmo Feltrin,2018-11-23 This book is devoted to the study of positive solutions to indefinite problems The monograph intelligibly provides an extensive overview of topological methods and introduces new ideas and results Sticking to the one dimensional setting the author shows that compelling and substantial research can be obtained and presented in a penetrable way In particular the book focuses on second order nonlinear differential equations It analyzes the Dirichlet Neumann and periodic boundary value problems associated with the equation and provides existence nonexistence and multiplicity results for positive solutions The author proposes a new approach based on topological degree theory that allows him to answer some open questions and solve a conjecture about the dependence of the number of positive solutions on the nodal behaviour of

the nonlinear term of the equation The new technique developed in the book gives as a byproduct infinitely many subharmonic solutions and globally defined positive solutions with chaotic behaviour Furthermore some future directions for research open questions and interesting unexplored topics of investigation are proposed **An Introduction to Mathematical Cryptography** Jeffrey Hoffstein,Jill Pipher,Joseph H. Silverman,2014-09-11 This self contained introduction to modern cryptography emphasizes the mathematics behind the theory of public key cryptosystems and digital signature schemes The book focuses on these key topics while developing the mathematical tools needed for the construction and security analysis of diverse cryptosystems Only basic linear algebra is required of the reader techniques from algebra number theory and probability are introduced and developed as required This text provides an ideal introduction for mathematics and computer science students to the mathematical foundations of modern cryptography The book includes an extensive bibliography and index supplementary materials are available online The book covers a variety of topics that are considered central to mathematical cryptography Key topics include classical cryptographic constructions such as Diffie Hellmann key exchange discrete logarithm based cryptosystems the RSA cryptosystem and digital signatures fundamental mathematical tools for cryptography including primality testing factorization algorithms probability theory information theory and collision algorithms an in depth treatment of important cryptographic innovations such as elliptic curves elliptic curve and pairing based cryptography lattices lattice based cryptography and the NTRU cryptosystem The second edition of An Introduction to Mathematical Cryptography includes a significant revision of the material on digital signatures including an earlier introduction to RSA Elgamal and DSA signatures and new material on lattice based signatures and rejection sampling Many sections have been rewritten or expanded for clarity especially in the chapters on information theory elliptic curves and lattices and the chapter of additional topics has been expanded to include sections on digital cash and homomorphic encryption Numerous new exercises have been included A Practical Guide to Quantum Computing Elías F. Combarro,Samuel González-Castillo,2025-07-30 Learn about quantum information processing with Qiskit through hands on projects A foundational resource for STEM professionals researchers and university students interested in quantum computers and algorithms Key Features Understand the theoretical foundations of quantum computing Learn how to use the Qiskit framework and how to run quantum algorithms with it Discover top quantum algorithms like Grover s search and Shor s factoring methods Purchase of the print or Kindle book includes a free PDF eBook Book Description This book is an introduction from scratch to quantum computing and the most important and foundational quantum algorithms ranging from humble protocols such as Deutsch s algorithm to ones with far reaching potential such as Shor s factoring algorithm offering clear explanations and a hands on approach with runnable code on simulators and real hardware The book is self contained and does not assume any previous experience in quantum computing Starting with a single qubit it scales to algorithms using superposition and entanglement At every step examples of applications are provided including how to create quantum money

that is impossible to forge quantum cryptography that cannot be broken and algorithms for searching and factoring that are much faster than those that regular non quantum computers can use Code for each of these algorithms is provided and explained in detail using Qiskit 2 1 After reading this book you will understand how quantum algorithms work how to write your own quantum programs and how to run them on quantum simulators and actual quantum computers You will also be prepared to take the jump into quantum algorithms for optimization and artificial intelligence like those presented in our previous book A Practical Guide to Quantum Machine Learning and Quantum Optimization What you will learn Understand what makes a quantum computer unique Mathematically represent the state of multi qubit systems Describe the effects of measurements in quantum computers Know how quantum superposition entanglement and interference work Implement and run any quantum algorithm in Qiskit Understand how Shor s and Grover s algorithms work Gain familiarity with quantum fault tolerance and quantum advantage Who this book is for This book would be ideal for university level students in Computer Science Mathematics Physics or other STEM fields taking introductory level courses on quantum computing It also suits professionals researchers and self learners with a STEM background Potential readers of our previous book A Practical Guide to Quantum Machine Learning and Quantum Optimization will benefit from first building foundational quantum computing skills with this book **Abstract Algebra with Applications** Audrey Terras,2019 This text offers a friendly and concise introduction to abstract algebra emphasizing its uses in the modern world **Knowledge Science, Engineering and Management** Han Qiu,Cheng Zhang,Zongming Fei,Meikang Qiu,Sun-Yuan Kung,2021-08-07 This three volume set constitutes the refereed proceedings of the 14th International Conference on Knowledge Science Engineering and Management KSEM 2021 held in Tokyo Japan in August 2021 The 164 revised full papers were carefully reviewed and selected from 492 submissions The contributions are organized in the following topical sections knowledge science with learning and AI knowledge engineering research and applications knowledge management with optimization and security **Understanding Topology** Shaun V. Ault,2018-01-30 Topology can present significant challenges for undergraduate students of mathematics and the sciences Understanding topology aims to change that The perfect introductory topology textbook Understanding topology requires only a knowledge of calculus and a general familiarity with set theory and logic Equally approachable and rigorous the book s clear organization worked examples and concise writing style support a thorough understanding of basic topological principles Professor Shaun V Ault s unique emphasis on fascinating applications from chemical dynamics to determining the shape of the universe will engage students in a way traditional topology textbooks do not Back cover **Ideals, Varieties, and Algorithms** David A. Cox,John Little,Donal O'Shea,2015-04-30 This text covers topics in algebraic geometry and commutative algebra with a strong perspective toward practical and computational aspects The first four chapters form the core of the book A comprehensive chart in the Preface illustrates a variety of ways to proceed with the material once these chapters are covered In addition to the fundamentals of algebraic

geometry the elimination theorem the extension theorem the closure theorem and the Nullstellensatz this new edition incorporates several substantial changes all of which are listed in the Preface The largest revision incorporates a new Chapter ten which presents some of the essentials of progress made over the last decades in computing Gr bner bases The book also includes current computer algebra material in Appendix C and updated independent projects Appendix D The book may serve as a first or second course in undergraduate abstract algebra and with some supplementation perhaps for beginning graduate level courses in algebraic geometry or computational algebra Prerequisites for the reader include linear algebra and a proof oriented course It is assumed that the reader has access to a computer algebra system Appendix C describes features of MapleTM Mathematica and Sage as well as other systems that are most relevant to the text Pseudocode is used in the text Appendix B carefully describes the pseudocode used Readers who are teaching from Ideals Varieties and Algorithms or are studying the book on their own may obtain a copy of the solutions manual by sending an email to jlittle holycross edu From the reviews of previous editions The book gives an introduction to Buchberger s algorithm with applications to syzygies Hilbert polynomials primary decompositions There is an introduction to classical algebraic geometry with applications to the ideal membership problem solving polynomial equations and elimination theory The book is well written The reviewer is sure that it will be an excellent guide to introduce further undergraduates in the algorithmic aspect of commutative algebra and algebraic geometry Peter Schenzel zbMATH 2007 I consider the book to be wonderful The exposition is very clear there are many helpful pictures and there are a great many instructive exercises some quite challenging offers the heart and soul of modern commutative and algebraic geometry The American Mathematical Monthly

Handbook of Linear Algebra Leslie Hogben,2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessibl *Solving the Pell Equation* Michael Jacobson,Hugh Williams,2008-12-04 Pell s Equation is a very simple Diophantine equation that has been known to mathematicians for over 2000 years Even today research involving this equation continues to be very active as can be seen by the publication of at least 150 articles related to this equation over the past decade However very few modern books have been published on Pell s Equation and this will be the first to give a historical development of the equation as well as to develop the necessary tools for solving the equation The authors provide a friendly introduction for advanced undergraduates to the delights of algebraic number theory via Pell s Equation The only prerequisites are a basic knowledge of elementary number theory and abstract algebra There are also numerous references and notes for those who wish to follow up on various topics *Analytic Number Theory for Beginners* Prapanpong Pongsriiam,2023-06-02 This new edition of Analytic Number Theory for Beginners presents a friendly introduction to analytic number theory for both advanced undergraduate and beginning graduate students and offers a

comfortable transition between the two levels The text starts with a review of elementary number theory and continues on to present less commonly covered topics such as multiplicative functions the floor function the use of big O little o and Vinogradov notation as well as summation formulas Standard advanced topics follow such as the Dirichlet L function Dirichlet s Theorem for primes in arithmetic progressions the Riemann Zeta function the Prime Number Theorem and new in this second edition sieve methods and additive number theory The book is self contained and easy to follow Each chapter provides examples and exercises of varying difficulty and ends with a section of notes which include a chapter summary open questions historical background and resources for further study Since many topics in this book are not typically covered at such an accessible level Analytic Number Theory for Beginners is likely to fill an important niche in today s selection of titles in this field **Noncommutative Birational Geometry, Representations and Combinatorics** Arkady. Berenstein,Vladimir. Retakh,2013-05-01 This volume contains the proceedings of the AMS Special Session on Noncommutative Birational Geometry Representations and Cluster Algebras held from January 6 7 2012 in Boston MA The papers deal with various aspects of noncommutative birational geometry and related topics focusing mainly on structure and representations of quantum groups and algebras braided algebras rational series in free groups Poisson brackets on free algebras and related problems in combinatorics This volume is useful for researchers and graduate students in mathematics and mathematical physics who want to be introduced to different areas of current research in the new area of noncommutative algebra and geometry Publisher s website **The Bulletin of Mathematics Books** ,1992 **The Unity of Combinatorics** Ezra Brown,Richard K. Guy,2021-04-05 Combinatorics or the art and science of counting is a vibrant and active area of pure mathematical research with many applications The Unity of Combinatorics succeeds in showing that the many facets of combinatorics are not merely isolated instances of clever tricks but that they have numerous connections and threads weaving them together to form a beautifully patterned tapestry of ideas Topics include combinatorial designs combinatorial games matroids difference sets Fibonacci numbers finite geometries Pascal s triangle Penrose tilings error correcting codes and many others Anyone with an interest in mathematics professional or recreational will be sure to find this book both enlightening and enjoyable Few mathematicians have been as active in this area as Richard Guy now in his eighth decade of mathematical productivity Guy is the author of over 300 papers and twelve books in geometry number theory graph theory and combinatorics In addition to being a life long number theorist and combinatorialist Guy s co author Ezra Brown is a multi award winning expository writer Together Guy and Brown have produced a book that in the spirit of the founding words of the Carus book series is accessible not only to mathematicians but to scientific workers and others with a modest mathematical background **The Joy of Factoring** Samuel S. Wagstaff (Jr.),2013-10-24 This book is about the theory and practice of integer factorization presented in a historic perspective It describes about twenty algorithms for factoring and a dozen other number theory algorithms that support the factoring algorithms Most algorithms are described

both in words and in pseudocode to satisfy both number theorists and computer scientists Each of the ten chapters begins with a concise summary of its contents This book is written for readers who want to learn more about the best methods of factoring integers many reasons for factoring and some history of this fascinating subject It can be read by anyone who has taken a first course in number theory Publisher website **Thinking in Problems** Alexander A. Roytvarf,2013-01-04 This concise self contained textbook gives an in depth look at problem solving from a mathematician s point of view Each chapter builds off the previous one while introducing a variety of methods that could be used when approaching any given problem Creative thinking is the key to solving mathematical problems and this book outlines the tools necessary to improve the reader s technique The text is divided into twelve chapters each providing corresponding hints explanations and finalization of solutions for the problems in the given chapter For the reader s convenience each exercise is marked with the required background level This book implements a variety of strategies that can be used to solve mathematical problems in fields such as analysis calculus linear and multilinear algebra and combinatorics It includes applications to mathematical physics geometry and other branches of mathematics Also provided within the text are real life problems in engineering and technology Thinking in Problems is intended for advanced undergraduate and graduate students in the classroom or as a self study guide Prerequisites include linear algebra and analysis *Handbook of Mathematical Induction* David S. Gunderson,2014-01-09 Handbook of Mathematical Induction Theory and Applications shows how to find and write proofs via mathematical induction This comprehensive book covers the theory the structure of the written proof all standard exercises and hundreds of application examples from nearly every area of mathematics In the first part of the book the author discuss

Counting Lattice Paths Using Fourier Methods Shaun Ault,Charles Kicey,2019-08-30 This monograph introduces a novel and effective approach to counting lattice paths by using the discrete Fourier transform DFT as a type of periodic generating function Utilizing a previously unexplored connection between combinatorics and Fourier analysis this method will allow readers to move to higher dimensional lattice path problems with ease The technique is carefully developed in the first three chapters using the algebraic properties of the DFT moving from one dimensional problems to higher dimensions In the following chapter the discussion turns to geometric properties of the DFT in order to study the corridor state space Each chapter poses open ended questions and exercises to prompt further practice and future research Two appendices are also provided which cover complex variables and non rectangular lattices thus ensuring the text will be self contained and serve as a valued reference Counting Lattice Paths Using Fourier Methods is ideal for upper undergraduates and graduate students studying combinatorics or other areas of mathematics as well as computer science or physics Instructors will also find this a valuable resource for use in their seminars Readers should have a firm understanding of calculus including integration sequences and series as well as a familiarity with proofs and elementary linear algebra

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