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ALGEBRA
AND
NUMBER
THEORY

Edward Weiss

First Course In Algebra And Number Theory

William Stein

First Course In Algebra And Number Theory:

   First Course in Algebra and Number Theory Edwin Weiss,1971   A First Course in Mathematical Logic and Set Theory Michael L. O'Leary,2015-10-21 A mathematical introduction to the theory and applications of logic and set theory with an emphasis on writing proofs Highlighting the applications and notations of basic mathematical concepts within the framework of logic and set theory A First Course in Mathematical Logic and Set Theory introduces how logic is used to prepare and structure proofs and solve more complex problems The book begins with propositional logic including two column proofs and truth table applications followed by first order logic which provides the structure for writing mathematical proofs Set theory is then introduced and serves as the basis for defining relations functions numbers mathematical induction ordinals and cardinals The book concludes with a primer on basic model theory with applications to abstract algebra A First Course in Mathematical Logic and Set Theory also includes Section exercises designed to show the interactions between topics and reinforce the presented ideas and concepts Numerous examples that illustrate theorems and employ basic concepts such as Euclid s lemma the Fibonacci sequence and unique factorization Coverage of important theorems including the well ordering theorem completeness theorem compactness theorem as well as the theorems of L wenheim Skolem Burali Forti Hartogs Cantor Schr der Bernstein and K nig An excellent textbook for students studying the foundations of mathematics and mathematical proofs A First Course in Mathematical Logic and Set Theory is also appropriate for readers preparing for careers in mathematics education or computer science In addition the book is ideal for introductory courses on mathematical logic and or set theory and appropriate for upper undergraduate transition courses with rigorous mathematical reasoning involving algebra number theory or analysis   A First Course in Noncommutative Rings Tsit-Yuen Lam,2001-06-21 Aimed at the novice rather than the connoisseur and stressing the role of examples and motivation this text is suitable not only for use in a graduate course but also for self study in the subject by interested graduate students More than 400 exercises testing the understanding of the general theory in the text are included in this new edition   *Elementary Number Theory: Primes, Congruences, and Secrets* William Stein,2008-10-28 This is a book about prime numbers congruences secret messages and elliptic curves that you can read cover to cover It grew out of undergr uate courses that the author taught at Harvard UC San Diego and the University of Washington The systematic study of number theory was initiated around 300B C when Euclid proved that there are in nitely many prime numbers and also cleverly deduced the fundamental theorem of arithmetic which asserts that every positive integer factors uniquely as a product of primes Over a thousand years later around 972A D Arab mathematicians formulated the congruent number problem that asks for a way to decide whether or not a given positive integer n is the area of a right triangle all three of whose sides are rational numbers Then another thousand years later in 1976 Di e and Hellman introduced the rst ever public key cryptosystem which enabled two people to communicate secretely over a public communications channel with no predeterminedsecret this invention and the ones that

followed it revolutionized the world of digital communication In the 1980s and 1990s elliptic curves revolutionized number theory providing striking new insights into the congruent number problem primality testing publ key cryptography attacks on public key systems and playing a central role in Andrew Wiles resolution of Fermat s Last Theorem *A First Course in Modular Forms* Fred Diamond,Jerry Shurman,2006-03-30 This book introduces the theory of modular forms with an eye toward the Modularity Theorem All rational elliptic curves arise from modular forms The topics covered include elliptic curves as complex tori and as algebraic curves modular curves as Riemann surfaces and as algebraic curves Hecke operators and Atkin Lehner theory Hecke eigenforms and their arithmetic properties the Jacobians of modular curves and the Abelian varieties associated to Hecke eigenforms elliptic and modular curves modulo p and the Eichler Shimura Relation the Galois representations associated to elliptic curves and to Hecke eigenforms As it presents these ideas the book states the Modularity Theorem in various forms relating them to each other and touching on their applications to number theory A First Course in Modular Forms is written for beginning graduate students and advanced undergraduates It does not require background in algebraic number theory or algebraic geometry and it contains exercises throughout Fred Diamond received his Ph D from Princeton University in 1988 under the direction of Andrew Wiles and now teaches at King s College London Jerry Shurman received his Ph D from Princeton University in 1988 under the direction of Goro Shimura and now teaches at Reed College *Algebraic Number Theory* Richard A. Mollin,2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard s cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications <u>Number Theory</u> Benjamin Fine,Gerhard Rosenberger,2016-09-19 Now in its second edition this textbook provides an introduction and overview of number theory based on the density and properties of the prime numbers This unique approach offers both a firm background in the standard material of number theory as well as an overview of the entire discipline All of the essential topics are covered such as the fundamental theorem of arithmetic theory of congruences quadratic reciprocity arithmetic functions and the distribution of primes New in this edition are coverage of p adic numbers Hensel s lemma multiple zeta values and elliptic curve methods in primality testing Key topics and features include A solid introduction to analytic number theory including full proofs of Dirichlet s Theorem and the Prime Number Theorem Concise treatment of algebraic number theory including a complete presentation of primes prime factorizations in algebraic number fields and unique factorization of ideals Discussion of the AKS algorithm which shows that primality testing is one of polynomial time a topic not usually included in such texts Many interesting ancillary topics such as primality testing and cryptography Fermat and Mersenne

numbers and Carmichael numbers The user friendly style historical context and wide range of exercises that range from simple to quite difficult with solutions and hints provided for select exercises make Number Theory An Introduction via the Density of Primes ideal for both self study and classroom use Intended for upper level undergraduates and beginning graduates the only prerequisites are a basic knowledge of calculus multivariable calculus and some linear algebra All necessary concepts from abstract algebra and complex analysis are introduced where needed **A Classical Introduction to Modern Number Theory** Kenneth Ireland,Michael Ira Rosen,1990-09-07 This well developed accessible text details the historical development of the subject throughout It also provides wide ranging coverage of significant results with comparatively elementary proofs some of them new This second edition contains two new chapters that provide a complete proof of the Mordel Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves *The Geometry of Discrete Groups* Alan F. Beardon,2012-12-06 This text is intended to serve as an introduction to the geometry of the action of discrete groups of Mobius transformations The subject matter has now been studied with changing points of emphasis for over a hundred years the most recent developments being connected with the theory of 3 manifolds see for example the papers of Poincare 77 and Thurston 101 About 1940 the now well known but virtually unobtainable Fenchel Nielsen manuscript appeared Sadly the manuscript never appeared in print and this more modest text attempts to display at least some of the beautiful geo metrical ideas to be found in that manuscript as well as some more recent material The text has been written with the conviction that geometrical explana tions are essential for a full understanding of the material and that however simple a matrix proof might seem a geometric proof is almost certainly more profitable Further wherever possible results should be stated in a form that is invariant under conjugation thus making the intrinsic nature of the result more apparent Despite the fact that the subject matter is concerned with groups of isometries of hyperbolic geometry many publications rely on Euclidean estimates and geometry However the recent developments have again emphasized the need for hyperbolic geometry and I have included a comprehensive chapter on analytical not axiomatic hyperbolic geometry It is hoped that this chapter will serve as a dictionary offormulae in plane hyperbolic geometry and as such will be of interest and use in its own right Topological Vector Spaces H.H. Schaefer,2012-12-06 The present book is intended to be a systematic text on topological vector spaces and presupposes familiarity with the elements of general topology and linear algebra The author has found it unnecessary to rederive these results since they are equally basic for many other areas of mathematics and every beginning graduate student is likely to have made their acquaintance Simi larly the elementary facts on Hilbert and Banach spaces are widely known and are not discussed in detail in this book which is plainly addressed to those readers who have attained and wish to get beyond the introductory level The book has its origin in courses given by the author at Washington State University the University of Michigan and the University of Ttibingen in the years 1958 1963 At that time there existed no reasonably ccmplete text on

topological vector spaces in English and there seemed to be a genuine need for a book on this subject This situation changed in 1963 with the appearance of the book by Kelley Namioka et al 1 which through its many elegant proofs has had some influence on the final draft of this manuscript Yet the two books appear to be sufficiently different in spirit and subject matter to justify the publication of this manuscript in particular the present book includes a discussion of topological tensor products nuclear spaces ordered topological vector spaces and an appendix on positive operators *Diophantine Geometry* Marc Hindry,Joseph H. Silverman,2013-12-01 This is an introduction to diophantine geometry at the advanced graduate level The book contains a proof of the Mordell conjecture which will make it quite attractive to graduate students and professional mathematicians In each part of the book the reader will find numerous exercises *Local Fields* Jean-Pierre Serre,2013-06-29 The goal of this book is to present local class field theory from the cohomo logical 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 coho mology 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 *Advanced Topics in the Arithmetic of Elliptic Curves* Joseph H. Silverman,2013-12-01 In the introduction to the first volume of The Arithmetic of Elliptic Curves Springer Verlag 1986 I observed that the theory of elliptic curves is rich varied and amazingly vast and as a consequence many important topics had to be omitted I included a brief introduction to ten additional topics as an appendix to the first volume with the tacit understanding that eventually there might be a second volume containing the details You are now holding that second volume it turned out that even those ten topics would not fit Unfortunately into a single book so I was forced to make some choices The following material is covered in this book I Elliptic and modular functions for the full modular group II Elliptic curves with complex multiplication III Elliptic surfaces and specialization theorems IV Neron models Kodaira Neron classification of special fibers Tate s algorithm and Ogg s conductor discriminant formula V Tate s theory of q curves over p adic fields VI Neron s theory of canonical local height functions *Elements of Functional Analysis* Francis Hirsch,Gilles Lacombe,2012-12-06 This book presents the fundamental function spaces and their duals explores operator

theory and finally develops the theory of distributions up to significant applications such as Sobolev spaces and Dirichlet problems Includes an assortment of well formulated exercises with answers and hints collected at the end of the book   *Lie Groups, Lie Algebras, and Their Representations* V.S. Varadarajan,2013-04-17 This book has grown out of a set of lecture notes I had prepared for a course on Lie groups in 1966 When I lectured again on the subject in 1972 I revised the notes substantially It is the revised version that is now appearing in book form The theory of Lie groups plays a fundamental role in many areas of mathematics There are a number of books on the subject currently available most notably those of Chevalley Jacobson and Bourbaki which present various aspects of the theory in great depth However 1 feei there is a need for a single book in English which develops both the algebraic and analytic aspects of the theory and which goes into the representation theory of semi simple Lie groups and Lie algebras in detail This book is an attempt to fiii this need It is my hope that this book will introduce the aspiring graduate student as well as the nonspecialist mathematician to the fundamental themes of the subject I have made no attempt to discuss infinite dimensional representations This is a very active field and a proper treatment of it would require another volume if not more of this size However the reader who wants to take up this theory will find that this book prepares him reasonably well for that task   *An Introduction to Operators on the Hardy-Hilbert Space* Ruben A. Martinez-Avendano,Peter Rosenthal,2007-03-12 This book offers an elementary and engaging introduction to operator theory on the Hardy Hilbert space It provides a firm foundation for the study of all spaces of analytic functions and of the operators on them Blending techniques from soft and hard analysis the book contains clear and beautiful proofs There are numerous exercises at the end of each chapter along with a brief guide for further study which includes references to applications to topics in engineering   **An Introduction to Riemann-Finsler Geometry** D. Bao,S.-S. Chern,Z. Shen,2012-12-06 In Riemannian geometry measurements are made with both yardsticks and protractors These tools are represented by a family of inner products In Riemann Finsler geometry or Finsler geometry for short one is in principle equipped with only a family of Minkowski norms So ardsticks are assigned but protractors are not With such a limited tool kit it is natural to wonder just how much geometry one can uncover and describe It now appears that there is a reasonable answer Finsler geometry encompasses a solid repertoire of rigidity and comparison theorems most of them founded upon a fruitful analogue of the sectional curvature There is also a bewildering array of explicit examples illustrating many phenomena which admit only Finslerian interpretations This book focuses on the elementary but essential items among these results Much thought has gone into making the account a teachable one   **Lectures on Modules and Rings** Tsit-Yuen Lam,2012-12-06 Textbook writing must be one of the cruelest of self inflicted tortures Carl Faith Math Reviews 54 5281 So why didn t I heed the warning of a wise colleague especially one who is a great expert in the subject of modules and rings The answer is simple I did not learn about it until it was too late My writing project in ring theory started in 1983 after I taught a year long course in the subject at Berkeley My original plan was to write up my lectures and publish them as a

graduate text in a couple of years My hopes of carrying out this plan on schedule were however quickly dashed as I began to realize how much material was at hand and how little time I had at my disposal As the years went by I added further material to my notes and used them to teach different versions of the course Eventually I came to the realization that writing a single volume would not fully accomplish my original goal of giving a comprehensive treatment of basic ring theory At the suggestion of Ulrike Schmickler Hirzebruch then Mathematics Editor of Springer Verlag I completed the first part of my project and published the write up in 1991 as A First Course in Noncommutative Rings GTM 131 hereafter referred to as First Course or simply FC   Partial Differential Equations Jürgen Jost,2007-01-08 This book offers an ideal introduction to the theory of partial differential equations It focuses on elliptic equations and systematically develops the relevant existence schemes always with a view towards nonlinear problems It also develops the main methods for obtaining estimates for solutions of elliptic equations Sobolev space theory weak and strong solutions Schauder estimates and Moser iteration It also explores connections between elliptic parabolic and hyperbolic equations as well as the connection with Brownian motion and semigroups This second edition features a new chapter on reaction diffusion equations and systems   *Introduction to Cyclotomic Fields* Lawrence C. Washington,1997 This text on a central area of number theory covers p adic L functions class numbers cyclotomic units Fermat s Last Theorem and Iwasawa s theory of Z_p extensions This edition contains a new chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture as well as a chapter on other recent developments such as primality testing via Jacobi sums and Sinnott s proof of the vanishing of Iwasawa s f invariant

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