Neal Koblitz

Introduction to Elliptic Curves and Modular Forms

Second Edition

With 24 Illustrations

Introduction To Elliptic Curves And Modular Forms

Eric W. Weisstein

Introduction To Elliptic Curves And Modular Forms:

    Introduction to Elliptic Curves and Modular Forms Neal I. Koblitz,2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work   **Introduction to Elliptic Curves and Modular Forms** N. Koblitz,2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work   **Elliptic Curves, Modular Forms, and Their L-functions** Álvaro Lozano-Robledo,2011 Many problems in number theory have simple statements but their solutions require a deep understanding of algebra algebraic geometry complex analysis group representations or a combination of all four The original simply stated problem can be obscured in the depth of the theory developed to understand it This book is an introduction to some of these problems and an overview of the theories used nowadays to attack them presented so that the number theory is always at the forefront of the discussion Lozano Robledo gives an introductory survey of elliptic curves modular forms and L functions His main goal is to provide the reader with the big picture of the surprising connections among these three families of mathematical objects and

their meaning for number theory As a case in point Lozano Robledo explains the modularity theorem and its famous consequence Fermat s Last Theorem He also discusses the Birch and Swinnerton Dyer Conjecture and other modern conjectures The book begins with some motivating problems and includes numerous concrete examples throughout the text often involving actual numbers such as 3 4 5 frac 3344161 747348 and frac 224403517704336969924557513090667486316094847 2041 8912332268928859588025535178967163570016480830 The theories of elliptic curves modular forms and L functions are too vast to be covered in a single volume and their proofs are outside the scope of the undergraduate curriculum However the primary objects of study the statements of the main theorems and their corollaries are within the grasp of advanced undergraduates This book concentrates on motivating the definitions explaining the statements of the theorems and conjectures making connections and providing lots of examples rather than dwelling on the hard proofs The book succeeds if after reading the text students feel compelled to study elliptic curves and modular forms in all their glory <u>An Introduction to Elliptic Curves, Modular Forms, and the Modularity Theorem</u> Blaze Okonogi-Neth,2023 **Introduction to Elliptic Curves and Modular Forms** Neal Koblitz,1984 The theory of elliptic curves and modular forms provides a fruitful meeting ground for such diverse areas as number theory complex analysis algebraic geometry and representation theory This book starts out with a problem from elementary number theory and proceeds to lead its reader into the modern theory covering such topics as the Hasse Weil L function and the conjecture of Birch and Swinnerton Dyer The second edition of this text includes an updated bibliography indicating the latest dramatic changes in the direction of proving the Birch and Swinnerton conjecture It also discusses the current state of knowledge of elliptic curves <u>Elliptic Curves and Modular Forms in Algebraic Topology</u> Peter S. Landweber,2006-11-15 A small conference was held in September 1986 to discuss new applications of elliptic functions and modular forms in algebraic topology which had led to the introduction of elliptic genera and elliptic cohomology The resulting papers range fom these topics through to quantum field theory with considerable attention to formal groups homology and cohomology theories and circle actions on spin manifolds Ed Witten s rich article on the index of the Dirac operator in loop space presents a mathematical treatment of his interpretation of elliptic genera in terms of quantum field theory A short introductory article gives an account of the growth of this area prior to the conference *Rational Points on Modular Elliptic Curves* Henri Darmon,2004 The book surveys some recent developments in the arithmetic of modular elliptic curves It places a special emphasis on the construction of rational points on elliptic curves the Birch and Swinnerton Dyer conjecture and the crucial role played by modularity in shedding light on these two closely related issues The main theme of the book is the theory of complex multiplication Heegner points and some conjectural variants The first three chapters introduce the background and prerequisites elliptic curves modular forms and the Shimura Taniyama Weil conjecture complex multiplication and the Heegner point construction The next three chapters introduce variants of modular parametrizations in which modular curves

are replaced by Shimura curves attached to certain indefinite quaternion algebras The main new contributions are found in Chapters 7 9 which survey the author s attempts to extend the theory of Heegner points and complex multiplication to situations where the base field is not a CM field Chapter 10 explains the proof of Kolyvagin s theorem which relates Heegner points to the arithmetic of elliptic curves and leads to the best evidence so far for the Birch and Swinnerton Dyer conjecture

   Elliptic Curves and Modular Forms in Algebraic Topology ,1988   The Discrepancy Method Bernard Chazelle,2000 The discrepancy method is the glue that binds randomness and complexity It is the bridge between randomized computation and discrepancy theory the area of mathematics concerned with irregularities in distributions The discrepancy method has played a major role in complexity theory in particular it has caused a mini revolution of sorts in computational geometry This book tells the story of the discrepancy method in a few short independent vignettes It is a varied tale which includes such topics as communication complexity pseudo randomness rapidly mixing Markov chains points on the sphere and modular forms derandomization convex hulls Voronoi diagrams linear programming and extensions geometric sampling VC dimension theory minimum spanning trees linear circuit complexity and multidimensional searching The mathematical treatment is thorough and self contained In particular background material in discrepancy theory is supplied as needed Thus the book should appeal to students and researchers in computer science operations research pure and applied mathematics and engineering   Modular Forms and Functions Robert A. Rankin,2008-12-04 This book provides an introduction to the theory of elliptic modular functions and forms a subject of increasing interest because of its connexions with the theory of elliptic curves Modular forms are generalisations of functions like theta functions They can be expressed as Fourier series and the Fourier coefficients frequently possess multiplicative properties which lead to a correspondence between modular forms and Dirichlet series having Euler products The Fourier coefficients also arise in certain representational problems in the theory of numbers for example in the study of the number of ways in which a positive integer may be expressed as a sum of a given number of squares The treatment of the theory presented here is fuller than is customary in a textbook on automorphic or modular forms since it is not confined solely to modular forms of integral weight dimension It will be of interest to professional mathematicians as well as senior undergraduate and graduate students in pure mathematics   CRC Concise Encyclopedia of Mathematics Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d   Commutative Algebra David Eisenbud,1995-03-30 This is a comprehensive review of commutative algebra from localization and primary decomposition through dimension theory homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics The book gives a concise treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic

geometry that flow from it Many exercises included **Topology and Geometry** Glen E. Bredon,2013-03-09 The golden age of mathematics that was not the age of Euclid it is ours C J KEYSER This time of writing is the hundredth anniversary of the publication 1892 of Poincare s first note on topology which arguably marks the beginning of the subject of algebraic or combinatorial topology There was earlier scattered work by Euler Listing who coined the word topology Mobius and his band Riemann Klein and Betti Indeed even as early as 1679 Leibniz indicated the desirability of creating a geometry of the topological type The establishment of topology or analysis situs as it was often called at the time as a coherent theory however belongs to Poincare Curiously the beginning of general topology also called point set topology dates fourteen years later when Frechet published the first abstract treatment of the subject in 1906 Since the beginning of time or at least the era of Archimedes smooth manifolds curves surfaces mechanical configurations the universe have been a central focus in mathematics They have always been at the core of interest in topology After the seminal work of Milnor Smale and many others in the last half of this century the topological aspects of smooth manifolds as distinct from the differential geometric aspects became a subject in its own right **Permutation Groups** John D. Dixon,Brian Mortimer,2012-12-06 Permutation Groups form one of the oldest parts of group theory Through the ubiquity of group actions and the concrete representations which they afford both finite and infinite permutation groups arise in many parts of mathematics and continue to be a lively topic of research in their own right The book begins with the basic ideas standard constructions and important examples in the theory of permutation groups It then develops the combinatorial and group theoretic structure of primitive groups leading to the proof of the pivotal O Nan Scott Theorem which links finite primitive groups with finite simple groups Special topics covered include the Mathieu groups multiply transitive groups and recent work on the subgroups of the infinite symmetric groups This text can serve as an introduction to permutation groups in a course at the graduate or advanced undergraduate level or for self study It includes many exercises and detailed references to the current literature
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 **From Holomorphic Functions to Complex Manifolds** Klaus Fritzsche,Hans Grauert,2012-12-06 The aim of this book is to give an understandable introduction to the the ory of complex manifolds With very few exceptions we give complete proofs Many examples and figures along with quite a few exercises are included Our intent is to familiarize the reader with the most important branches and methods in complex analysis of several variables and to do this as simply as possible Therefore the abstract concepts involved with sheaves coherence and higher dimensional cohomology are avoided Only elementary methods such as power series holomorphic vector bundles and one dimensional co cycles are used Nevertheless deep results can be proved for example the Remmert Stein theorem for analytic

sets finiteness theorems for spaces of cross sections in holomorphic vector bundles and the solution of the Levi problem The first chapter deals with holomorphic functions defined in open sub sets of the space en Many of the well known properties of holomorphic functions of one variable such as the Cauchy integral formula or the maxi mum principle can be applied directly to obtain corresponding properties of holomorphic functions of several variables Furthermore certain properties of differentiable functions of several variables such as the implicit and inverse function theorems extend easily to holomorphic functions   **Algebraic K-Theory and Its Applications** Jonathan Rosenberg,2012-12-06 Algebraic K Theory plays an important role in many areas of modern mathematics most notably algebraic topology number theory and algebraic geometry but even including operator theory The broad range of these topics has tended to give the subject an aura of inapproachability This book based on a course at the University of Maryland in the fall of 1990 is intended to enable graduate students or mathematicians working in other areas not only to learn the basics of algebraic K Theory but also to get a feel for its many applications The required prerequisites are only the standard one year graduate algebra course and the standard introductory graduate course on algebraic and geometric topology Many topics from algebraic topology homological algebra and algebraic number theory are developed as needed The final chapter gives a concise introduction to cyclic homology and its interrelationship with K Theory   **Topics in Banach Space Theory** Fernando Albiac,Nigel J. Kalton,2006-05-28 This book emphasizes the isomorphic theory of Banach spaces and techniques using the unifying viewpoint of basic sequences Its aim is to provide the reader with the necessary technical tools and background to reach the frontiers of research without the introduction of too many extraneous concepts Detailed and accessible proofs are included as are a variety of exercises and problems   **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   **Seminar on Fermat's Last Theorem** Vijaya Kumar Murty,1995 The most significant recent development in number theory is the work of Andrew Wiles on modular elliptic curves Besides implying Fermat s Last Theorem his work establishes a new reciprocity law Reciprocity

laws lie at the heart of number theory Wiles work draws on many of the tools of modern number theory and the purpose of this volume is to introduce readers to some of this background material Based on a seminar held during 1993 1994 at the Fields Institute for Research in Mathematical Sciences this book contains articles on elliptic curves modular forms and modular curves Serre s conjectures Ribet s theorem deformations of Galois representations Euler systems and annihilators of Selmer groups All of the authors are well known in their field and have made significant contributions to the general area of elliptic curves Galois representations and modular forms Features Brings together a unique collection of number theoretic tools Makes accessible the tools needed to understand one of the biggest breakthroughs in mathematics Provides numerous references for further study

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