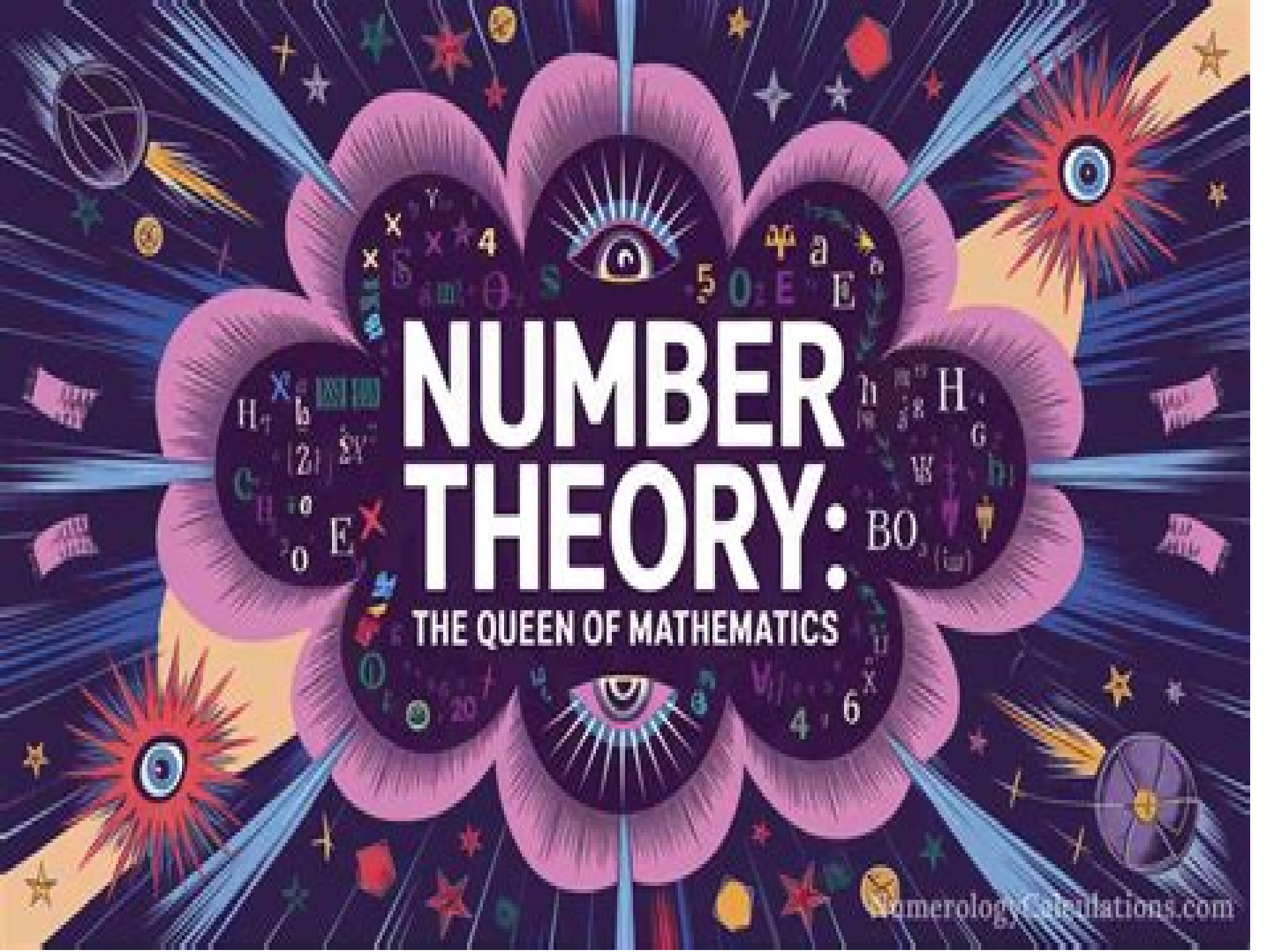


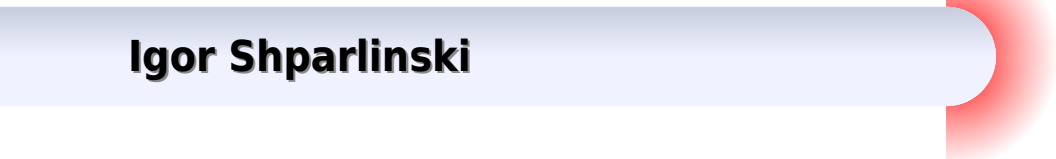


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Number Theory For Computing

Igor Shparlinski



Number Theory For Computing:

Number Theory for Computing Song Y. Yan, 2013-11-11 Modern cryptography depends heavily on number theory with primality testing factoring discrete logarithms indices and elliptic curves being perhaps the most prominent subject areas Since my own graduate study had emphasized probability theory statistics and real analysis when I started working in cryptography around 1970 I found myself swimming in an unknown murky sea I thus know from personal experience how inaccessible number theory can be to the uninitiated Thank you for your efforts to ease the transition for a new generation of cryptographers Thank you also for helping Ralph Merkle receive the credit he deserves Diffie Rivest Shamir Adleman and I had the good luck to get expedited review of our papers so that they appeared before Merkle's seminal contribution Your noting his early submission date and referring to what has come to be called Diffie Hellman key exchange as it should Diffie Hellman Merkle key exchange is greatly appreciated It has been gratifying to see how cryptography and number theory have helped each other over the last twenty five years Number theory has been the source of numerous clever ideas for implementing cryptographic systems and protocols while cryptography has been helpful in getting funding for this area which has sometimes been called the queen of mathematics because of its seeming lack of real world applications Little did they know Stanford 30 July 2001 Martin E Hellman Preface to the Second Edition Number theory is an experimental science

Elementary Number Theory with Programming Marty Lewinter, Jeanine Meyer, 2015-05-06 A highly successful presentation of the fundamental concepts of number theory and computer programming Bridging an existing gap between mathematics and programming Elementary Number Theory with Programming provides a unique introduction to elementary number theory with fundamental coverage of computer programming Written by highly qualified experts in the fields of computer science and mathematics the book features accessible coverage for readers with various levels of experience and explores number theory in the context of programming without relying on advanced prerequisite knowledge and concepts in either area Elementary Number Theory with Programming features comprehensive coverage of the methodology and applications of the most well known theorems problems and concepts in number theory Using standard mathematical applications within the programming field the book presents modular arithmetic and prime decomposition which are the basis of the public private key system of cryptography In addition the book includes Numerous examples exercises and research challenges in each chapter to encourage readers to work through the discussed concepts and ideas Select solutions to the chapter exercises in an appendix Plentiful sample computer programs to aid comprehension of the presented material for readers who have either never done any programming or need to improve their existing skill set A related website with links to select exercises An Instructor's Solutions Manual available on a companion website Elementary Number Theory with Programming is a useful textbook for undergraduate and graduate level students majoring in mathematics or computer science as well as an excellent supplement for teachers and students who would like to better understand and appreciate

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research programs at such well known research institutions as the Newton Institute UK Oberwolfach and Dagstuhl Germany and Luminy France Accordingly there were only invited lectures at the workshop with plenty of time for informal discussions It was hoped and successfully achieved that the meeting would encourage and stimulate further research in information and computer security as well as in the design and implementation of number theoretic cryptosystems and other related areas Another goal of the meeting was to stimulate collaboration and more active interaction between mathematicians computer scientists practical cryptographers and engineers in academia industry and government

Quantum Computational Number Theory Song Y. Yan, 2015-12-26 This book provides a comprehensive introduction to advanced topics in the computational and algorithmic aspects of number theory focusing on applications in cryptography Readers will learn to develop fast algorithms including quantum algorithms to solve various classic and modern number theoretic problems Key problems include prime number generation primality testing integer factorization discrete logarithms elliptic curve arithmetic conjecture and numerical verification The author discusses quantum algorithms for solving the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP and for attacking IFP DLP and ECDLP based cryptographic systems Chapters also cover various other quantum algorithms for Pell's equation principal ideal unit group class group Gauss sums prime counting function Riemann's hypothesis and the BSD conjecture Quantum Computational Number Theory is self contained and intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the related fields Number theorists cryptographers and professionals working in quantum computing cryptography and network security will find this book a valuable asset

Introduction to Number Theory with Computing R. B. J. T. Allenby, E. J. Redfern, 1989-01-01 This introduction to number theory has been written specifically for mathematics and computing undergraduates Computer programs in BASIC are accompanied by basic text which explains the subject and demonstrates how computers have opened up new horizons for number theorists

Primes and Programming P. J. Giblin, 1993-09-02 In this introductory book Dr Giblin describes methods that have been developed for testing the primality of numbers provides Pascal programs for their implementation and gives applications to coding

Cryptology and Computational Number Theory Carl Pomerance, Shafi Goldwasser, 1990 In the past dozen or so years cryptology and computational number theory have become increasingly intertwined Because the primary cryptologic application of number theory is the apparent intractability of certain computations these two fields could part in the future and again go their separate ways But for now their union is continuing to bring ferment and rapid change in both subjects This book contains the proceedings of an AMS Short Course in Cryptology and Computational Number Theory held in August 1989 during the Joint Mathematics Meetings in Boulder Colorado These eight papers by six of the top experts in the field will provide readers with a thorough introduction to some of the principal advances in cryptology and computational number theory over the past fifteen years In addition to an extensive introductory article the book contains articles on

primality testing discrete logarithms integer factoring knapsack cryptosystems pseudorandom number generators the theoretical underpinnings of cryptology and other number theory based cryptosystems Requiring only background in elementary number theory this book is aimed at nonexperts including graduate students and advanced undergraduates in mathematics and computer science **Finite Fields: Theory and Computation** Igor Shparlinski, 2013-03-09 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we include two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number generators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Coding Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR **Algorithmic Number Theory** J. P. Buhler, P. Stevenhagen, 2008-10-20 An introduction to number theory for beginning graduate students with articles by the leading experts in the field *A Tribute to Emil Grosswald: Number Theory and Related Analysis* Marvin Isadore Knopp, Mark Sheingorn, 1993 Emil Grosswald was a mathematician of great accomplishment and remarkable breadth of vision This volume pays tribute to the span of his mathematical interests which is reflected in the wide range of papers collected here With contributions by leading contemporary researchers in number theory modular functions combinatorics and related analysis this book will interest graduate students and specialists in these fields The high quality of the articles and their close connection to current research trends make this volume a must for any mathematics library **Computational Problems, Methods, and Results in Algebraic Number Theory** H. G. Zimmer, 2006-11-15 **Number Theory in Science and Communication** Manfred Schroeder, 2008-11-14 Number Theory in Science and Communication is a well known introduction for non mathematicians to this fascinating and useful branch of applied mathematics It stresses intuitive understanding rather than abstract theory and highlights important concepts such as continued fractions the golden ratio quadratic residues and Chinese remainders trapdoor functions pseudo primes and primitive elements Their applications to problems in the real world are one of the main themes of the book This revised fifth edition is augmented by recent advances in coding theory permutations and derangements and a chapter in quantum cryptography From reviews of earlier editions I

continue to find Schroeder's Number Theory a goldmine of valuable information. It is a marvelous book in touch with the most recent applications of number theory and written with great clarity and humor. Philip Morrison, *Scientific American*. A light hearted and readable volume with a wide range of applications to which the author has been a productive contributor. Useful mathematics outside the formalities of theorem and proof. Martin Gardner, *Proceedings of the Twenty Third Annual ACM Symposium on Theory of Computing, New Orleans, Louisiana, May 6-8, 1991*, 1991.

Beginning Number Theory Neville Robbins, 2006. Thoroughly Revised And Updated The New Second Edition Of Neville Robbins Beginning Number Theory Includes All Of The Major Topics Covered In A Classic Number Theory Course And Blends In Numerous Applications And Specialized Treatments Of Number Theory Including Cryptology Fibonacci Numbers And Computational Number Theory. The Text Strikes A Balance Between Traditional And Algorithmic Approaches To Elementary Number Theory And Is Supported With Numerous Exercises Applications And Case Studies Throughout. Computer Exercises For CAS Systems Are Also Included.

Prime Numbers and Computer Methods for Factorization Hans Riesel, 2012-12-06. In the modern age of almost universal computer usage practically every individual in a technologically developed society has routine access to the most up to date cryptographic technology that exists the so called RSA public key cryptosystem. A major component of this system is the factorization of large numbers into their primes. Thus an ancient number theory concept now plays a crucial role in communication among millions of people who may have little or no knowledge of even elementary mathematics. Hans Riesel's highly successful first edition of this book has now been enlarged and updated with the goal of satisfying the needs of researchers students practitioners of cryptography and non scientific readers with a mathematical inclination. It includes important advances in computational prime number theory and in factorization as well as recomputed and enlarged tables accompanied by new tables reflecting current research by both the author and his coworkers and by independent researchers. The book treats four fundamental problems: the number of primes below a given limit, the approximate number of primes, the recognition of primes and the factorization of large numbers. The author provides explicit algorithms and computer programs and has attempted to discuss as many of the classically important results as possible as well as the most recent discoveries. The programs included are written in PASCAL to allow readers to translate the programs into the language of their own computers. The independent structure of each chapter of the book makes it highly readable for a wide variety of mathematicians students of applied number theory and others interested in both study and research in number theory and cryptography.

Finite Fields: Theory and Computation Igor Shparlinski, 1999-05-31. This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics. For completeness we include two special chapters on some recent advances and applications of the theory of congruences: optimal coefficients congruential

pseudo random number generators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Coding Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR

Computational Excursions in Analysis and Number Theory Peter Borwein, 2012-12-06 This book is designed for a topics course in computational number theory It is based around a number of difficult old problems that live at the interface of analysis and number theory Some of these problems are the following The Integer Chebyshev Problem Find a nonzero polynomial of degree n with integer coefficients that has smallest possible supremum norm on the unit interval Littlewood's Problem Find a polynomial of degree n with coefficients in the set $\{-1, 1\}$ that has smallest possible supremum norm on the unit disk The Prouhet-Tarry-Escott Problem Find a polynomial with integer coefficients that is divisible by $x^{l+1} - 1$ and has smallest possible 1 -norm That 1 is the sum of the absolute values of the coefficients is minimal Lehmer's Problem Show that any monic polynomial $p(x) = \sum_{i=0}^n a_i x^i$ with integer coefficients that is irreducible and that is not a cyclotomic polynomial has Mahler measure at least 1.162 All of the above problems are at least forty years old all are presumably very hard certainly none are completely solved and all lend themselves to extensive computational explorations The techniques for tackling these problems are various and include probabilistic methods combinatorial methods the circle method and Diophantine and analytic techniques Computationally the main tool is the LLL algorithm for finding small vectors in a lattice The book is intended as an introduction to a diverse collection of techniques

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