

Number Theory and Cryptography

Chapter 4

With Questions, Answer Animations



An Introduction To Number Theory With Cryptography

Benjamin Fine, Gerhard Rosenberger



An Introduction To Number Theory With Cryptography:

An Introduction to Number Theory with Cryptography James S. Kraft, Lawrence C. Washington, 2016-04-19 Number theory has a rich history For many years it was one of the purest areas of pure mathematics studied because of the intellectual fascination with properties of integers More recently it has been an area that also has important applications to subjects such as cryptography An Introduction to Number Theory with Cryptography presents number

An Introduction to Number Theory with Cryptography James Kraft, Lawrence Washington, 2018-01-29 Building on the success of the first edition An Introduction to Number Theory with Cryptography Second Edition increases coverage of the popular and important topic of cryptography integrating it with traditional topics in number theory The authors have written the text in an engaging style to reflect number theory's increasing popularity The book is designed to be used by sophomore junior and senior undergraduates but it is also accessible to advanced high school students and is appropriate for independent study It includes a few more advanced topics for students who wish to explore beyond the traditional curriculum Features of the second edition include Over 800 exercises projects and computer explorations Increased coverage of cryptography including Vigenere Stream Transposition and Block ciphers along with RSA and discrete log based systems Check Your Understanding questions for instant feedback to students New Appendices on What is a proof and on Matrices Select basic pre RSA cryptography now placed in an earlier chapter so that the topic can be covered right after the basic material on congruences Answers and hints for odd numbered problems About the Authors Jim Kraft received his Ph D from the University of Maryland in 1987 and has published several research papers in algebraic number theory His previous teaching positions include the University of Rochester St Mary's College of California and Ithaca College and he has also worked in communications security Dr Kraft currently teaches mathematics at the Gilman School Larry Washington received his Ph D from Princeton University in 1974 and has published extensively in number theory including books on cryptography with Wade Trappe cyclotomic fields and elliptic curves Dr Washington is currently Professor of Mathematics and Distinguished Scholar Teacher at the University of Maryland

An Introduction to Number Theory with Cryptography James S. Kraft, 2018

Number Theory and Cryptography J. H. Loxton, 1990-04-19 Papers presented by prominent contributors at a workshop on Number Theory and Cryptography and the annual meeting of the Australian Mathematical Society

Introduction to Number Theory Anthony Vazzana, Martin Erickson, David Garth, 2007-10-30 One of the oldest branches of mathematics number theory is a vast field devoted to studying the properties of whole numbers Offering a flexible format for a one or two semester course Introduction to Number Theory uses worked examples numerous exercises and two popular software packages to describe a diverse array of number theory topics

Computational Number Theory and Modern Cryptography Song Y. Yan, 2013-01-29 The only book to provide a unified view of the interplay between computational number theory and cryptography Computational number theory and modern cryptography are two of the most important and

fundamental research fields in information security In this book Song Y Yang combines knowledge of these two critical fields providing a unified view of the relationships between computational number theory and cryptography The author takes an innovative approach presenting mathematical ideas first thereupon treating cryptography as an immediate application of the mathematical concepts The book also presents topics from number theory which are relevant for applications in public key cryptography as well as modern topics such as coding and lattice based cryptography for post quantum cryptography The author further covers the current research and applications for common cryptographic algorithms describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers Makes mathematical problems accessible to computer scientists and engineers by showing their immediate application Presents topics from number theory relevant for public key cryptography applications Covers modern topics such as coding and lattice based cryptography for post quantum cryptography Starts with the basics then goes into applications and areas of active research Geared at a global audience classroom tested in North America Europe and Asia Includes exercises in every chapter Instructor resources available on the book's Companion Website Computational Number Theory and Modern Cryptography is ideal for graduate and advanced undergraduate students in computer science communications engineering cryptography and mathematics Computer scientists practicing cryptographers and other professionals involved in various security schemes will also find this book to be a helpful reference

Number Theory Benjamin Fine, Gerhard Rosenberger, 2007-06-04 This book provides an introduction and overview of number theory based on the distribution and properties of primes This unique approach provides both a firm background in the standard material as well as an overview of the whole discipline All the essential topics are covered fundamental theorem of arithmetic theory of congruences quadratic reciprocity arithmetic functions and the distribution of primes Analytic number theory and algebraic number theory both receive a solid introductory treatment The book's user friendly style historical context and wide range of exercises make it ideal for self study and classroom use

Elementary Number Theory, Cryptography and Codes M. Welleda Baldoni, Ciro Ciliberto, G.M. Piacentini Cattaneo, 2008-11-28 In this volume one finds basic techniques from algebra and number theory e.g. congruences unique factorization domains finite fields quadratic residues primality tests continued fractions etc which in recent years have proven to be extremely useful for applications to cryptography and coding theory Both cryptography and codes have crucial applications in our daily lives and they are described here while the complexity problems that arise in implementing the related numerical algorithms are also taken into due account Cryptography has been developed in great detail both in its classical and more recent aspects In particular public key cryptography is extensively discussed the use of algebraic geometry specifically of elliptic curves over finite fields is illustrated and a final chapter is devoted to quantum cryptography which is the new frontier of the field Coding theory is not discussed in full however a chapter sufficient for a good introduction to the subject has been devoted to linear codes Each chapter ends with several complements and with an

extensive list of exercises the solutions to most of which are included in the last chapter Though the book contains advanced material such as cryptography on elliptic curves Goppa codes using algebraic curves over finite fields and the recent AKS polynomial primality test the authors objective has been to keep the exposition as self contained and elementary as possible Therefore the book will be useful to students and researchers both in theoretical e g mathematicians and in applied sciences e g physicists engineers computer scientists etc seeking a friendly introduction to the important subjects treated here The book will also be useful for teachers who intend to give courses on these topics

An Introduction to Number Theory G. Everest, Thomas Ward, 2005-11-24 An Introduction to Number Theory provides an introduction to the main streams of number theory Starting with the unique factorization property of the integers the theme of factorization is revisited several times throughout the book to illustrate how the ideas handed down from Euclid continue to reverberate through the subject A number of different approaches to number theory are presented and the different streams in the book are brought together in a chapter that describes the class number formula for quadratic fields and the famous conjectures of Birch and Swinnerton Dyer The final chapter introduces some of the main ideas behind modern computational number theory and its applications in cryptography Written for graduate and advanced undergraduate students of mathematics this text will also appeal to students in cognate subjects who wish to learn some of the big ideas in number theory

Number Theory and Its Significance in Cryptography Elina Rose, Aleenash, 2024-06-17

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