

A COMPUTATIONAL INTRODUCTION TO NUMBER THEORY AND ALGEBRA

Victor Shoup



A Computational Introduction To Number Theory And Algebra

Lloyd James Peter Kilford



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A Computational Introduction to Number Theory and Algebra, 2005

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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

Modular Forms: A Classical And Computational Introduction (2nd Edition) Lloyd James Peter Kilford, 2015-03-12 Modular Forms is a graduate student level introduction to the classical theory of modular forms and computations involving modular forms including modular functions and the theory of Hecke operators It also includes applications of modular forms to various subjects such as the theory of quadratic forms the proof of Fermat's Last Theorem and the approximation of The text gives a balanced overview of both the theoretical and computational sides of its subject allowing a variety of courses to be taught from it This second edition has been revised and updated New material on the future of modular forms as well as a chapter about longer form projects for students has also been added

Mathematical Reviews, 2006 [A Course in Computational Algebraic Number Theory](#) Henri Cohen, 1993 Describes

148 algorithms that are fundamental for number theoretic computations including computations related to algebraic number theory elliptic curves primality testing and factoring A complete theoretical introduction is given for each subject reducing prerequisites to a minimum The detailed description of each algorithm allows immediate **Advances in Cryptology** ,2005

Algebra John Scherk,2000-06-23 Adequate texts that introduce the concepts of abstract algebra are plentiful None however are more suited to those needing a mathematical background for careers in engineering computer science the physical sciences industry or finance than **Algebra A Computational Introduction** Along with a unique approach and presentation the author demonstrates how software can be used as a problem solving tool for algebra A variety of factors set this text apart Its clear exposition with each chapter building upon the previous ones provides greater clarity for the reader The author first introduces permutation groups then linear groups before finally tackling abstract groups He carefully motivates Galois theory by introducing Galois groups as symmetry groups He includes many computations both as examples and as exercises All of this works to better prepare readers for understanding the more abstract concepts By carefully integrating the use of Mathematica throughout the book in examples and exercises the author helps readers develop a deeper understanding and appreciation of the material The numerous exercises and examples along with downloads available from the Internet help establish a valuable working knowledge of Mathematica and provide a good reference for complex problems encountered in the field **Theory of Cryptography** ,2006 **Algorithmic Algebra and Number Theory** B.Heinrich Matzat,Gert-Martin Greuel,1999 This book contains 22 lectures presented at the final conference of the German research program Algorithmic Number Theory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemeinschaft The purpose of this research program and the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory The book gives an overview on algorithmic methods and results obtained during this period mainly in algebraic number theory commutative algebra and algebraic geometry and group and representation theory Some of the articles illustrate the current state of the computer algebra systems developed with support from the research program for example KANT and LiDIA for algebraic number theory SINGULAR REDLOG and INVARI for commutative algebra and invariant theory respectively and GAP SYSPHOS and CHEVIE for group and representation theory *Privacy Enhancing Technologies* ,2004 *Choice* ,2009 **General Catalog -- University of California, Santa Cruz** University of California, Santa Cruz,2008 *Group Theory, Algebra, and Number Theory* Horst G. Zimmer,1996 No detailed description available for *Group Theory Algebra and Number Theory* *Algorithmic Number Theory* ,2004 [The British National Bibliography](#) Arthur James Wells,2009 **UC Santa Cruz** University of California, Santa Cruz,2006 **Catalog** University of Maryland University College,1973 **Stanford Bulletin** ,2004

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