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NOAM NISAN AND SHIMON SCHOCKEN

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Computation In Modern Physics (Second Edition) William R Gibbs,1999-11-22 The use of computers to solve modern scientific problems is very widespread The impact of the improvement of our techniques on the solution of complex problems is difficult to overstate Even our approach to most problems has been changed Solutions to problems once thought intractable are being routinely secured Instead of using oversimplified models as has been the practice for the treatment of scientific systems in the past the entire problem can now be tackled successfully The second edition of Computation in Modern Physics develops and presents algorithms for the solution of many types of mathematical systems some dating as far as the last few centuries but also quite a number that have been developed within the last 10 50 years In this latter category close attention is paid to the rapidly developing area of Monte Carlo techniques where new conceptual views of physics problems are being brought into play With this method problems in a large number of dimensions can be solved through the introduction of a modern method for the representation of multidimensional functions This invaluable book is suitable for two different levels of computational physics The first part of the book is of an advanced introductory level and is appropriate for good students with no previous experience in computational methods or any student with some experience Here the student is introduced to integral and differential techniques Monte Carlo integration basic computer architecture methods of linear algebra finite element techniques digital signal processing and chaos The second part of the book is more specialized for problems in strong interaction with emphasis on solutions to many body scattering problems and several body bound state calculations with Monte Carlo techniques It also contains a chapter dealing with techniques for the summation of divergent series    **Modern Computing Methods** National Physical Laboratory (Great Britain),1961    *Modern Computing Methods* National Physical Laboratory,1965    **Modern Computing Methods** ,1957    *Prime Numbers and Computer Methods for Factorization* Hans Riesel,2011-11-23 From the original hard cover edition 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 re computed 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 include 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    Modern Computing Methods ,1957    **Naval Research Logistics Quarterly** ,1961    *Modern Statistical, Systems, and GPSS Simulation, Second Edition* Zaven A. Karian,Edward J. Dudewicz,1998-11-09 Modern Statistical Systems and GPSS Simulation Second Edition introduces the theory and implementation of discrete event simulation This text establishes a theoretical basis for simulation methodology provides details of an important simulation language GPSS General Purpose Simulation System integrates these two elements in a systems simulation case study Valuable additions to the second edition include coverage of random number generators with astronomic period new entropy based tests of uniformity gamma variate generation results on the GLD and variance reduction techniques GPSS PC is an interactive implementation of GPSS for the IBM PC compatible family of microcomputers The disk accompanying Modern Statistical Systems and GPSS Simulation contains the limited educational version of GPSS PC with many illustrative examples discussed in the text    **Applied Mechanics Reviews** ,1963    **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 Incudes exercises in every chapter Instructor resources available on the book s Companion Website Computational Number Theory and Modern Cryptography is

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