

Elementary Number Theory with Programming

By Marty Lewinter, Jeanine Meyer



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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 number theory and computer programming. The book is also an ideal reference for computer scientists, programmers, and researchers interested in the mathematical applications of programming. **Download** Elementary Number Theory with Programming ...pdf

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Editorial Review

Review

"It consists of nine chapters, all including the corresponding programs along with their mathematical content. The mathematical structure is also interesting and well-formed starting from special numbers, primes and Pell equation, to Pascal's triangle, prime decomposition and modular arithmetic and finishing with numbertheoretic functions, the Euler Phi-function, sums and partitions and the classical application to cryptography. It is also remarkable that the main scope of the programs is defined before their use from the reader, providing him the best orientation for his study." (Zentralblatt MATH 2016)

From the Back Cover

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Marty Lewinter, PhD, is Professor Emeritus of Mathematics at the State University of New York, Purchase College. The author of three books and more than 80 articles, he is Executive Director of Mathematics at American Digital University Services.

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Jeanine Meyer, PhD, is Professor of Mathematics/Computer Science at the State University of New York, Purchase College. She is the author of six books as well as numerous journal articles.

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