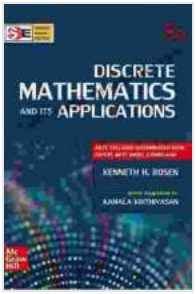
Number Theory and Cryptography, Second Edition: The Key to Unlocking Modern Cryptography

In the digital age, the secure transmission of sensitive information is paramount. Cryptography, the art and science of keeping data confidential, has become an indispensable tool for safeguarding our privacy and protecting our data. At the heart of cryptography lies number theory, a branch of mathematics that explores the properties of numbers and their relationships.



Elliptic Curves: Number Theory and Cryptography, Second Edition (Discrete Mathematics and Its Applications) by Lawrence C. Washington

★★★★★ 5 out of 5

Language	: English
File size	: 17093 KB
Screen Reader	: Supported
Print length	: 536 pages

Number Theory and Cryptography, Second Edition, is the definitive guide to this fascinating and rapidly evolving field. This comprehensive resource provides a deep dive into the mathematical foundations of modern cryptography, empowering readers to understand the intricate algorithms and techniques used to encrypt and decrypt sensitive information.

Key Features of Number Theory and Cryptography, Second Edition:

- **Updated and revised content** reflecting the latest developments in the field
- **New chapters** on elliptic curve cryptography (ECC) and post-quantum cryptography
- **Expanded coverage** of topics such as prime numbers, modular arithmetic, and finite fields
- **Hundreds of solved examples** to reinforce understanding
- **Challenging exercises** to test comprehension

Why Study Number Theory and Cryptography?

Number theory and cryptography are essential for anyone involved in:

- **Information security**
- **Computer science**
- **Mathematics**
- **Electrical engineering**

Whether you're a student, researcher, or professional, Number Theory and Cryptography, Second Edition, provides the knowledge and skills you need to stay ahead of the curve in this dynamic field.

Meet the Authors

Marc Lothaire is a renowned mathematician specializing in combinatorics and number theory. He is the author of numerous textbooks and research papers and a professor at the University of Quebec in Montreal.

Jean-Jacques Quisquater is a leading expert in cryptography and information security. He is the co-inventor of the RSA cryptosystem and a professor at the Université catholique de Louvain in Belgium.

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Reviews

"Number Theory and Cryptography, Second Edition, is an excellent textbook for students and researchers. The authors present the material clearly and concisely, and they provide numerous examples and exercises to reinforce understanding." - Dr. David Joyner, University of California, Berkeley

"This book is a must-have for anyone interested in cryptography. It provides a comprehensive overview of the field, from the basics to the latest developments." - Dr. Joan Daemen, KU Leuven

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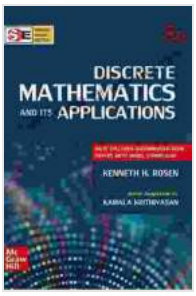

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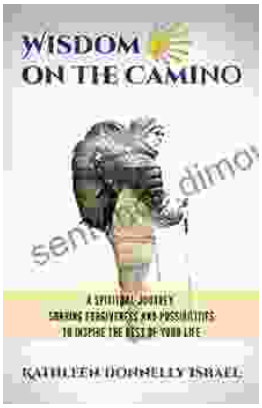

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