

Elliptic Curves: Number Theory and Cryptography, Second Edition (Discrete Mathematics and Its Applications)

By Lawrence C. Washington

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


Like its bestselling predecessor, **Elliptic Curves: Number Theory and Cryptography, Second Edition** develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications. With additional exercises, this edition offers more comprehensive coverage of the fundamental theory, techniques, and applications of elliptic curves.

An explanation of how to perform calculations with elliptic curves in several popular computer algebra systems Taking a basic approach to elliptic curves, this accessible book prepares readers to tackle more advanced problems in the field. It introduces elliptic curves over finite fields early in the text, before moving on to interesting applications, such as cryptography, factoring, and primality testing. The book also discusses the use of elliptic curves in Fermat's Last Theorem. Relevant abstract algebra material on group theory and fields can be found in the appendices.

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Editorial Review

... the book is well structured and does not waste the reader's time in dividing cryptography from number theory-only information. This enables the reader just to pick the desired information. ... a very comprehensive guide on the theory of elliptic curves. ... I can recommend this book for both cryptographers and mathematicians doing either their Ph.D. or Master's ... I enjoyed reading and studying this book and will be glad to have it as a future reference.

?IACR book reviews, April 2010 **Praise for the First Edition**

There are already a number of books about elliptic curves, but this new offering by Washington is definitely among the best of them. It gives a rigorous though relatively elementary development of the theory of elliptic curves, with emphasis on those aspects of the theory most relevant for an understanding of elliptic curve cryptography. ... an excellent companion to the books of Silverman and Blake, Seroussi and Smart. It would be a fine asset to any library or collection.

?*Mathematical Reviews*, Issue 2004e

Washington ... has found just the right level of abstraction for a first book Notably, he offers the most lucid and concrete account ever of the perpetually mysterious Shafarevich–Tate group. A pleasure to read! Summing Up: Highly recommended.

?*CHOICE*, March 2004

... a nice, relatively complete, elementary account of elliptic curves.

?*Bulletin of the AMS* **Users Review From reader reviews:**

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