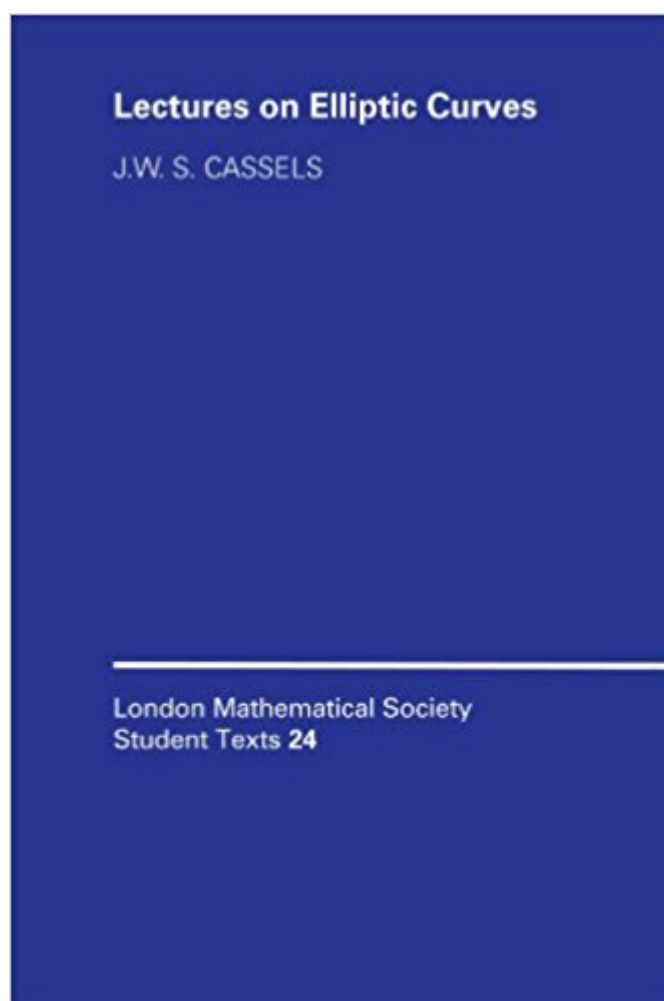


The book was found

# Lectures On Elliptic Curves (London Mathematical Society Student Texts, Vol. 24)



## Synopsis

The study of special cases of elliptic curves goes back to Diophantos and Fermat, and today it is still one of the liveliest centers of research in number theory. This book, addressed to beginning graduate students, introduces basic theory from a contemporary viewpoint but with an eye to the historical background. The central portion deals with curves over the rationals: the Mordell-Weil finite basis theorem, points of finite order (Nagell-Lutz), etc. The treatment is structured by the local-global standpoint and culminates in the description of the Tate-Shafarevich group as the obstruction to a Hasse principle. In an introductory section the Hasse principle for conics is discussed. The book closes with sections on the theory over finite fields (the "Riemann hypothesis for function fields") and recently developed uses of elliptic curves for factoring large integers. Prerequisites are kept to a minimum; an acquaintance with the fundamentals of Galois theory is assumed, but no knowledge either of algebraic number theory or algebraic geometry is needed. The  $p$ -adic numbers are introduced from scratch. Many examples and exercises are included for the reader, and those new to elliptic curves, whether they are graduate students or specialists from other fields, will find this a valuable introduction.

## Book Information

Paperback: 144 pages

Publisher: Cambridge University Press; 1st edition (November 29, 1991)

Language: English

ISBN-10: 0521425301

ISBN-13: 978-0521425308

Product Dimensions: 6 x 0.4 x 9 inches

Shipping Weight: 8 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #792,354 in Books (See Top 100 in Books) #133 in [Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry](#) #262 in [Books > Science & Math > Mathematics > Pure Mathematics > Number Theory](#) #473 in [Books > Textbooks > Science & Mathematics > Mathematics > Geometry](#)

## Customer Reviews

'... an excellent introduction ... written with humour.' Monatshefte für Mathematik

[Download to continue reading...](#)

Lectures on Elliptic Curves (London Mathematical Society Student Texts, Vol. 24) London: London  
Travel Guide: 101 Coolest Things to Do in London (London Vacations, London Holidays, London  
Restaurants, Budget Travel London, UK Travel Guide, England Travel Guide) The Arithmetic of  
Elliptic Curves (Graduate Texts in Mathematics) Introduction to Elliptic Curves and Modular Forms  
(Graduate Texts in Mathematics) Elliptic Curves. (MN-40) Elliptic Tales: Curves, Counting, and  
Number Theory Undergraduate Algebraic Geometry (London Mathematical Society Student Texts)  
Groups, Languages and Automata (London Mathematical Society Student Texts) Undergraduate  
Commutative Algebra (London Mathematical Society Student Texts) Young Tableaux: With  
Applications to Representation Theory and Geometry (London Mathematical Society Student Texts)  
A Short Course on Banach Space Theory (London Mathematical Society Student Texts) LONDON:  
The Ultimate Travel Guide With Essential Tips About What To See, Where To Go, Eat And Sleep  
(London Travel Guide, London Guide, London Traveling Guide) Numerical Partial Differential  
Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33)  
Elementary Algebraic Geometry (Student Mathematical Library, Vol. 20) (Student Mathematical  
Library, V. 20) Galois Theory: Lectures Delivered at the University of Notre Dame by Emil Artin  
(Notre Dame Mathematical Lectures, Number 2) Algebraic Topology: A Student's Guide (London  
Mathematical Society Lecture Note Series) Books of Breathing and Related Texts -Late Egyptian  
Religious Texts in the British Museum Vol.1 (Catalogue of the Books of the Dead and Other  
Religious Texts in the British Museum) The Feynman Lectures on Physics, Vol. II: The New  
Millennium Edition: Mainly Electromagnetism and Matter: Volume 2 (Feynman Lectures on Physics  
(Paperback)) The Feynman Lectures on Physics, Vol. II: The New Millennium Edition: Mainly  
Electromagnetism and Matter (Feynman Lectures on Physics (Paperback)) (Volume 2) The  
Feynman Lectures on Physics, Vol. III: The New Millennium Edition: Quantum Mechanics: Volume 3  
(Feynman Lectures on Physics (Paperback))

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)