

Elliptic Curves (Graduate Texts in Mathematics)

By Dale Husemöller

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First Edition sold over 2500 copies in the Americas; New Edition contains three new chapters and two new appendices

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Elliptic Curves (Graduate Texts in Mathematics) By Dale Husemöller Bibliography

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Editorial Review

Review

From the reviews of the second edition:

"Husemöller's text was and is the great first introduction to the world of elliptic curves … and a good guide to the current research literature as well. … this second edition builds on the original in several ways. … it has certainly gained a good deal of topicality, appeal, power of inspiration, and educational value for a wider public. No doubt, this text will maintain its role as both a useful primer and a passionate invitation to the evergreen theory of elliptic curves and their applications" (Werner Kleinert, Zentralblatt MATH, Vol. 1040, 2004)

From the Back Cover

This book is an introduction to the theory of elliptic curves, ranging from elementary topics to current research. The first chapters, which grew out of Tate's Haverford Lectures, cover the arithmetic theory of elliptic curves over the field of rational numbers. This theory is then recast into the powerful and more general language of Galois cohomology and descent theory. An analytic section of the book includes such topics as elliptic functions, theta functions, and modular functions. Next, the book discusses the theory of elliptic curves over finite and local fields and provides a survey of results in the global arithmetic theory, especially those related to the conjecture of Birch and Swinnerton-Dyer.

This new edition contains three new chapters. The first is an outline of Wiles's proof of Fermat's Last Theorem. The two additional chapters concern higher-dimensional analogues of elliptic curves, including K3 surfaces and Calabi-Yau manifolds. Two new appendices explore recent applications of elliptic curves and their generalizations. The first, written by Stefan Theisen, examines the role of Calabi-Yau manifolds and elliptic curves in string theory, while the second, by Otto Forster, discusses the use of elliptic curves in computing theory and coding theory.

About the First Edition:

"All in all the book is well written, and can serve as basis for a student seminar on the subject."

-G. Faltings, Zentralblatt

Users Review

From reader reviews:

Jeremy Smith:

Book will be written, printed, or highlighted for everything. You can recognize everything you want by a publication. Book has a different type. As it is known to us that book is important factor to bring us around the world. Close to that you can your reading skill was fluently. A e-book Elliptic Curves (Graduate Texts in Mathematics) will make you to possibly be smarter. You can feel more confidence if you can know about every little thing. But some of you think in which open or reading the book make you bored. It is not necessarily make you fun. Why they may be thought like that? Have you trying to find best book or acceptable book with you?

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