
Graduate Texts in Mathematics

Neal Koblitz

Introduction to Elliptic Curves and Modular Forms

Second Edition



Springer

Introduction to Elliptic Curves and Modular Forms

Neal Koblitz

This textbook covers the fundamental theories of elliptic curves and modular forms, with emphasis on definite connections with number theory. The traditional "congruent number problem" is the critical motivating instance for many of the book. My goal is to make the topic obtainable to people who locate it not easy to learn extra complicated or extra algebraically orientated treatments. Even as I would like to introduce issues that are on the leading edge of present research. Down-to-earth examples are given within the textual content and exercises, with the purpose of constructing the cloth readable and fascinating to mathematicians in fields some distance faraway from the topic of the book. With a number of routines (and answers) included, the textbook is usually meant for graduate scholars who've accomplished the traditional first-year classes in genuine and intricate research and algebra. Such scholars may study functions of concepts from these courses, thereby solidifying their lower than status of a few easy instruments used all through mathematics. Graduate students eager to paintings in quantity idea or algebraic geometry might get a motivational, example-oriented introduction. In addition, complex lower than graduates may possibly use the publication for self sustaining examine projects, senior theses, and seminar work."

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