

Harder

Lectures on Algebraic Geometry I

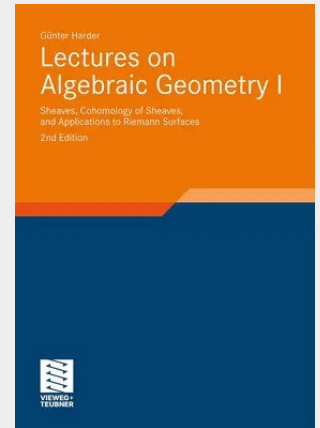
Sheaves, Cohomology of Sheaves, and Applications to Riemann Surfaces

This book and the following second volume is an introduction into modern algebraic geometry. In the first volume the methods of homological algebra, theory of sheaves, and sheaf cohomology are developed. These methods are indispensable for modern algebraic geometry, but they are also fundamental for other branches of mathematics and of great interest in their own.

In the last chapter of volume I these concepts are applied to the theory of compact Riemann surfaces. In this chapter the author makes clear how influential the ideas of Abel, Riemann and Jacobi were and that many of the modern methods have been anticipated by them.

For this second edition the text was completely revised and corrected. The author also added a short section on moduli of elliptic curves with N-level structures. This new paragraph anticipates some of the techniques of volume II.

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139,09 €

129,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783834819925

Medium: Buch

ISBN: 978-3-8348-1992-5

Verlag: Springer

Erscheinungstermin: 07.11.2013

Sprache(n): Englisch

Auflage: 2. Auflage 2011

Serie: Aspects of Mathematics

Produktform: Kartoniert

Gewicht: 533 g

Seiten: 301

Format (B x H): 168 x 240 mm

