

<<Algebraic surfaces代数表面>>

图书基本信息

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### 内容概要

The main aim of this book is to present a completely algebraic approach to the Enriques classification of smooth projective surfaces defined over an algebraically closed field of arbitrary characteristic. This algebraic approach is one of the novelties of this book among the other modern textbooks devoted to this subject. Two chapters on surface singularities are also included. The book can be useful as a textbook for a graduate course on surfaces, for researchers or graduate students in algebraic geometry, as well as those mathematicians working in algebraic geometry or related fields.

书籍目录

Foreword to the English Version Preface Conventions and Notation 1 Cohomological Intersection Theory and the Nakai-Moishezon Criterion of Ampleness 2 The Hodge Index Theorem and the Structure of the Intersection Matrix of a Fiber 3 Criteria of Contractability and Rational Singularities 4 Properties of Rational Singularities 5 Noether's Formula, the Picard Scheme, the Albanese Variety, and Plurigenera 6 Existence of Minimal Models 7 Morphisms from a Surface to a Curve. Elliptic and Quasielliptic Fibrations 8 Canonical Dimension of an Elliptic or Quasielliptic Fibration 9 The Classification Theorem According to Canonical Dimension 10 Surfaces with Canonical Dimension Zero 11 Ruled Surfaces. The Noether-Tsen Criterion 12 Minimal Models of Ruled Surfaces 13 Characterization of Ruled and Rational Surfaces 14 Zariski Decomposition and Applications 15 Appendix: Further Reading References Index

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