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Autor:

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Sinopsis

ISBN: 9781447148289

Explains schemes in algebraic geometry from a beginner's level up to advanced topics such as smoothness and ample invertible sheaves

Is self-contained and well adapted for self-study

Includes prerequisites from commutative algebra in a separate part

Gives motivating introductions to the different themes, illustrated by typical examples

Offers an abundance of exercises, specially adapted to the different sections

Algebraic geometry is a fascinating branch of mathematics that combines methods from both algebra and geometry. It transcends the limited scope of pure algebra by means of geometric construction principles. Moreover, Grothendieck's schemes invented in the late 1950s allowed the application of algebraic-geometric methods in fields that formerly seemed to be far away from geometry (algebraic number theory, for example). The new techniques paved the way to spectacular progress such as the proof of Fermat's Last Theorem by Wiles and Taylor.

The scheme-theoretic approach to algebraic geometry is explained for non-experts whilst more advanced readers can use the book to broaden their view on the subject. A separate part studies the necessary prerequisites from commutative algebra. The book provides an accessible and self-contained introduction to algebraic geometry, up to an advanced level.

Every chapter of the book is preceded by a motivating introduction with an informal discussion of the contents. Typical examples and an abundance of exercises illustrate each section. Therefore the book is an excellent solution for learning by yourself or for complementing knowledge that is already present. It can equally be used as a convenient source for courses and seminars or as supplemental literature.

Content Level » Graduate

Keywords » Hilbert's Nullstellensatz - Homological Algebra - Noetherian and Artinian rings - Schemes - Sheaves

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