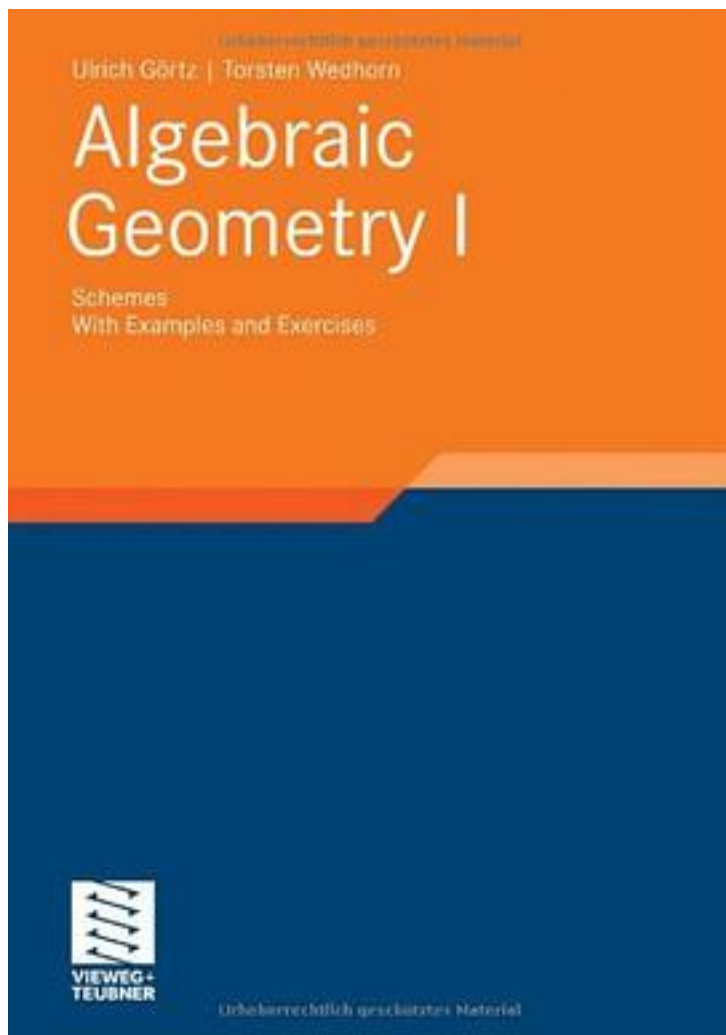


# Algebraic Geometry



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Aimed primarily at graduate students and beginning researchers, this book provides an

introduction to algebraic geometry that is particularly suitable for those with no previous contact with the subject; it assumes only the standard background of undergraduate algebra. The book starts with easily-formulated problems with non-trivial solutions and uses these problems to introduce the fundamental tools of modern algebraic geometry: dimension; singularities; sheaves; varieties; and cohomology. A range of exercises is provided for each topic discussed, and a selection of problems and exam papers are collected in an appendix to provide material for further study.

作者介绍:

目录: Affine algebraic sets  
Projective algebraic sets  
Sheaves and varieties  
Dimension  
Tangent spaces and singular points  
Bézout's theorem  
Sheaf cohomology  
Arithmetic genus of curves and the weak Riemann-Roch theorem  
Rational maps, geometric genus and rational curves  
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