Algebraic and Analytic Geometry
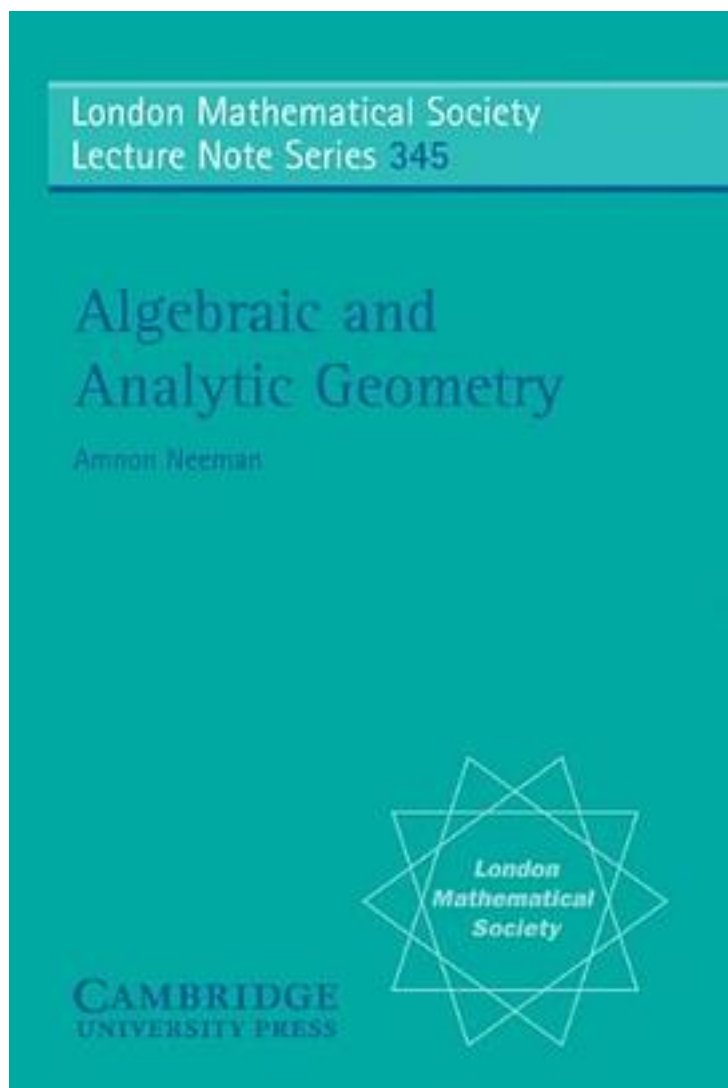
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This textbook, for an undergraduate course in modern algebraic geometry, recognizes that the typical undergraduate curriculum contains a great deal of analysis and, by contrast, little algebra. Because of this imbalance, it seems most natural to present algebraic geometry by highlighting the way it connects algebra and analysis; the average student will probably be more familiar and more comfortable with the analytic component. The book therefore focuses on Serre's GAGA theorem, which perhaps best encapsulates the link between algebra and analysis. GAGA provides the unifying theme of the book: we develop enough of the modern machinery of algebraic geometry to be able to give an essentially complete proof, at a level accessible to undergraduates throughout. The book is based on a course which the author has taught, twice, at the Australian National University.

作者介绍:

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标签

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评论

本书只证明的一个关键定理就是serre的GAGA：从代数范畴多项式（整体）到其解析范畴（局部问题）之间的类比关系。有限概型上的三个对象代数和分析等价：闭子集，向量丛，映射（代数丛上的映射是全纯的）紧性条件下。概型可以看做为流形或者是簇的推广（流形-环层空间-局部环层空间-素谱-概型局部模型是仿射概型）。层是整体定义的，但本质是局部的。可微流形的本质是拓扑流形加上了可微函数组成的向量空间=环层（X，Ox）

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书评

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