

Commutative Algebra

Graduate Texts in Mathematics

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Commutative
Algebra with a View
Toward Algebraic
Geometry



Springer

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This is the softcover reprint of the English translation of 1972 (available from Springer since 1989) of the first 7 chapters of Bourbaki's 'Algèbre commutative'. It provides a very complete treatment of commutative algebra, enabling the reader to go further and study algebraic or arithmetic geometry. The first 3 chapters treat in succession the concepts of flatness, localization and completions (in the general setting of graduations and filtrations). Chapter 4 studies associated prime ideals and the primary decomposition. Chapter 5 deals with integers, integral closures and finitely generated algebras over a field (including the Nullstellensatz). Chapter 6 studies valuation (of any rank), and the last chapter focuses on divisors (Krull, Dedekind, or factorial domains) with a final section on modules over integrally closed Noetherian domains, not usually found in textbooks. Useful exercises appear at the ends of the chapters.

作者介绍:

目录:

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标签

数学

评论

交换代数理论的起点是丢番图方程（整系数多项式的整数解问题）：局部化，完备化，局部到整体。非交换：群表示-群代数-半单代数-半单环-可除代数上矩阵环

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书评

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