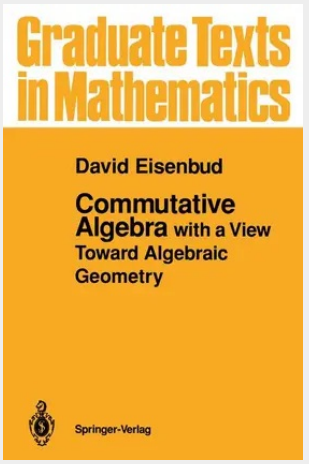
Eisenbud

Commutative Algebra

with a View Toward Algebraic Geometry



Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation, in short, with a view towards algebraic geometry. The author presents a comprehensive view of commutative algebra, from basics, such as localization and primary decomposition, through dimension theory, differentials, homological methods, free resolutions and duality, emphasizing the origins of the ideas and their connections with other parts of mathematics. Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text. One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it. Applications of the theory and even suggestions for computer algebra projects are included. This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry. To help beginners, the essential ideals from algebraic geometry are treated from scratch. Appendices on homological algebra, multilinear algebra and several other useful topics help to make the book relatively self- contained. Novel results and presentations are scattered throughout the text.

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42,75 €
39,95 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9780387942698
Medium: Buch
ISBN: 978-0-387-94269-8
Verlag: Springer
Erscheinungstermin: 30.03.1995
Sprache(n): Englisch
Auflage: 1995
Serie: Graduate Texts in Mathematics
Produktform: Kartoniert
Gewicht: 2490 g
Seiten: 800
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)