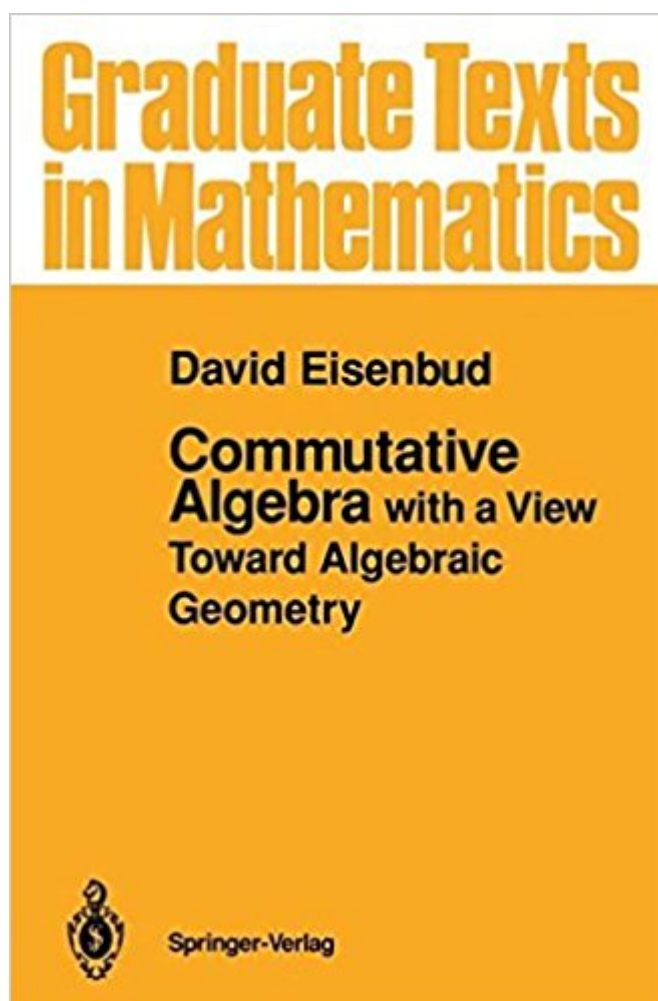


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# Commutative Algebra: With A View Toward Algebraic Geometry (Graduate Texts In Mathematics)



## Synopsis

This is a comprehensive review of commutative algebra, from localization and primary decomposition through dimension theory, homological methods, free resolutions and duality, emphasizing the origins of the ideas and their connections with other parts of mathematics. The book gives a concise treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it. Many exercises included.

## Book Information

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## Customer Reviews

D. Eisenbud Commutative Algebra with a View Toward Algebraic Geometry "This text has personality" — Those familiar with Eisenbud's own research will recognize its traces in his choice of topics and manner of approach. The book conveys infectious enthusiasm and the conviction that research in the field is active and yet accessible." — MATHEMATICAL

### REVIEWS

I cannot comment much on this book as a first experience to commutative algebra, but as a reference and particularly a companion to Hartshorne it is irreplaceable (as noted in the intro, "a view toward algebraic geometry" is meant as a reference to Algebraic Geometry, the title of Hartshorne). In particular, all the algebraic results which are assumed in that title are proven here. As someone who loves seeing the details worked out, this is fantastic. In addition, reading this after having done

a little algebraic geometry can be enlightening as Eisenbud likes to work in geometric examples wherever applicable -- albeit at the expense of a first-time reader. The book is extremely comprehensive as well, any time I have a question which can be phrased purely algebraically, Eisenbud is my first reference. On the other hand, this makes it the heaviest book on my shelf even as a paperback. 800 pages! There is one section I did learn from as a first source, the introduction to homological algebra in the appendices which I found to be really well-done. It certainly isn't done in the generality or depth as Weibel, but if you are only interested in modules over a ring or the easy generalizations to quasi-coherent modules on a scheme, this is a great place to learn the essentials of things like derived functors, spectral sequences, and even a cursory intro to derived categories that allowed me to get into Weibel's derived category chapter with ease.

Great reference with tons of material, explained from the basics. If you've been studying commutative rings for years and want a geometric perspective, this is the book for you. While I'd be hesitant to recommend it for a first course in commutative algebra (for that, use Kaplansky or Atiyah-MacDonald), it puts everything together very nicely.

I started reading it only recently and made past first 3 chapters. So this review is less about the specifics of the content, but about the general style. First, it is a delight to read. The clarity is excellent. It's understood that part of the clarity is based on reader's background! I didn't major in mathematics, and mine is an effort to (try to) learn some aspects of commutative algebra. Even with that sort of limited background of a beginner, I was able to tread through the material - as far as I read. Second, the motivation and historical backgrounds are fantastic. Especially for someone who may not know a lot about connections with other areas, this was a great help in putting things in perspective. One downside is that it makes the chapter a little more verbose than it needs to be for a quick access. But then for me it was a virtue; someone else may not find it so. Finally, the book doesn't have a strict linear flow. So it is somewhat easier, especially for an expert, to just pick a chapter and start reading it. A feature that I enjoy a lot in general, although I am not an expert in this area by any stretch.

Excellent book. Very clear, thorough, with tons of interesting examples

The text itself is great -- it fills in all the background Hartshorne inexplicably assumes you'll be familiar with in a clear and well-motivated way. You should definitely read it. My low rating pertains

specifically to the paperback binding. This book is 800 pages long, and despite being printed on what appears to be very thin paper the book is twice as thick as nearly any other book I own. The paperback binding simply isn't up to the task of holding the book together -- if you read anything that isn't in the middle couple of chapters, it develops permanent creases. I expect my copy will have fallen completely apart within a month or so. Honestly, this book should have been split into two volumes or something, because the current size is absurdly unwieldy. As things stand, I'd recommend trying to find a hardcover or eBook edition.

Very easy for read! I recommend for beginners graduate students.

These springer print on demand books should be labelled low quality for their paper and print. Pages are very thick printed with the lowest quality setting.

The text is great. The binding for the paperback version is terrible. Upon opening this book for the first time, the first few chapters easily peeled off of the binding. It makes holding the book open for those chapters difficult. Reading through some of the reviews, this hasn't only happened to me. It's a shame that such a great book has been put together so badly.

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