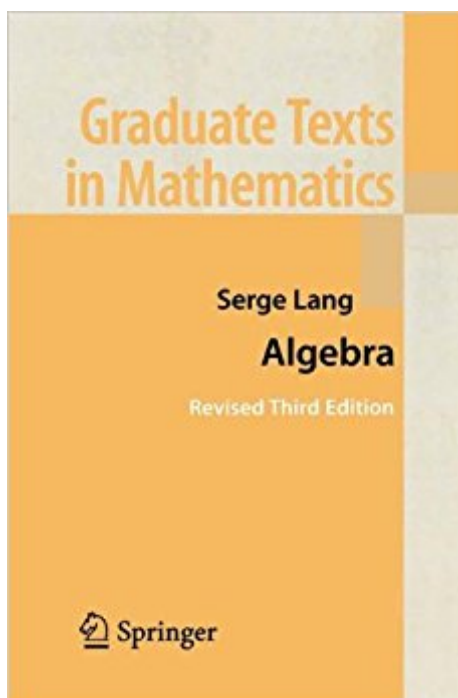


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# Algebra (Graduate Texts In Mathematics)



## Synopsis

This book is intended as a basic text for a one year course in algebra at the graduate level or as a useful reference for mathematicians and professionals who use higher-level algebra. This book successfully addresses all of the basic concepts of algebra. For the new edition, the author has added exercises and made numerous corrections to the text. From MathSciNet's review of the first edition: "The author has an impressive knack for presenting the important and interesting ideas of algebra in just the "right" way, and he never gets bogged down in the dry formalism which pervades some parts of algebra."

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S. Lang Algebra "Lang's Algebra changed the way graduate algebra is taught, retaining classical topics but introducing language and ways of thinking from category theory and homological algebra. It has affected all subsequent graduate-level algebra books." [NOTICES OF THE AMS](#) "The author has an impressive knack for presenting the important and interesting ideas of algebra in just the "right" way, and he never gets bogged down in the dry formalism which pervades some parts of algebra." [MATHEMATICAL REVIEWS](#) From the reviews of the third edition: "The current third edition has grown again | dealing with topics close to the author's heart from number theory, function theory and algebraic geometry. For the math graduate who wants to broaden his education this is an excellent account; apart from

standard topics it picks out many items from other fields  $\hat{A}$ . This makes it a fascinating book to read  $\hat{A}$ . a very readable treatment of many modern mainline topics as well as some interesting out-of-the-way items." (Paul M. Cohn, Zentralblatt MATH, Vol. 984, 2003)

"Lang's  $\hat{A}$  has gained an iconic status, due both to the comprehensiveness of its coverage and its ability to be authoritative and lively at the same time.  $\hat{A}$  a revolutionary work, changing the way in which graduate algebra was taught.  $\hat{A}$  the author describes the book as  $\hat{A}$ , indicating that there is little that he has wished to change. This confidence is reflected in the wider mathematical community, and ... this new printing deserves a place in every university departmental library." (Gerry Leversha, The Mathematical Gazette, Vol. 87 (509), 2003)

This book is intended as a basic text for a one-year course in Algebra at the graduate level, or as a useful reference for mathematicians and professionals who use higher-level algebra. It successfully addresses the basic concepts of algebra. For the revised third edition, the author has added exercises and made numerous corrections to the text. Comments on Serge Lang's Algebra: Lang's Algebra changed the way graduate algebra is taught, retaining classical topics but introducing language and ways of thinking from category theory and homological algebra. It has affected all subsequent graduate-level algebra books. April 1999 Notices of the AMS, announcing that the author was awarded the Leroy P. Steele Prize for Mathematical Exposition for his many mathematics books. The author has an impressive knack for presenting the important and interesting ideas of algebra in just the "right" way, and he never gets bogged down in the dry formalism which pervades some parts of algebra. MathSciNet's review of the first edition

I really like the book. It can be rough but every time I have sat down and really tried to figure out what Lang is doing in some proof, I come out having learned so much. Additionally, his style really emphasizes the main ideas (which is the most important thing in my mind). Also, there is a lot of supplementary material (eg. Bergman's "A Companion to Lang's Algebra", (just google it)) so it is relatively easy to fill in the details that you get really hung up on. These reasons have made the book my first choice to read up on something that I don't fully grasp. I also really enjoy the random examples he throws in from all over the place. It's pretty cool when you're sitting in class learning something new only to recognize it as that weird example from Lang that you didn't quite understand at the time.

It's very good.

An excellent book to learn algebra, it covers many subjects and evidences the relationship between them.

A very complete text - well written from a fully rigorous level. It is the foundation text of a solid understanding of Algebra. Read Hungerford for the structure, Dummit if you get stuck, and Lang when you want to be complete.

This is like an encyclopedia for algebra. You wouldn't want to read it in order to learn the material for the first time, but everything is in there so it makes a great reference.

A very useful book! Although it was hard to read at first, it became a good reference once I got used to the structure of the book.

A great reference book for algebraists, but not great for learning out of. Very dense, but easy to look things up.

As most of the books written by Prof. Lang, this book is a great compilation, it has what it needs to have, nothing more, nothing less. If you are in Math or any related field, and need a book to refresh your knowledge on Abstract Algebra, this is your book. though, I took a course in Grad School from this book, and I don't recommend it. Fortunately I still had the books from my undergrad courses (Rotman's Group Theory book is great), and I did remember the old courses anyway, but I really discourage the usage of this book as a lecture book.

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