



# A Course in Algebra

By E. B. Vinberg, E. B. Vinberg

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This is a comprehensive textbook on modern algebra written by an internationally renowned specialist. It covers material traditionally found in advanced undergraduate and basic graduate courses and presents it in a lucid style. The author includes almost no technically difficult proofs, and reflecting his point of view on mathematics, he tries wherever possible to replace calculations and difficult deductions with conceptual proofs and to associate geometric images to algebraic objects. The effort spent on the part of students in absorbing these ideas will pay off when they turn to solving problems outside of this textbook. Another important feature is the presentation of most topics on several levels, allowing students to move smoothly from initial acquaintance with the subject to thorough study and a deeper understanding. Basic topics are included, such as algebraic structures, linear algebra, polynomials, and groups, as well as more advanced topics, such as affine and projective spaces, tensor algebra, Galois theory, Lie groups, and associative algebras and their representations. Some applications of linear algebra and group theory to physics are discussed. The book is written with extreme care and contains over 200 exercises and 70 figures. It is ideal as a textbook and also suitable for independent study for advanced undergraduates and graduate students.

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## **Editorial Review**

### Review

"This is a masterly textbook on basic algebra. It is, at the same time, demanding and down-to-earth, challenging and user-friendly, abstract and concrete, concise and comprehensible, and above all extremely educating, inspiring and enlightening." ---- Zentralblatt MATH

"Great book! The author's teaching experience shows in every chapter." ---- E. Zelmanov, University of California, San Diego

"Vinberg has written an algebra book that is excellent, both as a classroom text or for self-study. It starts with the most basic concepts and builds in orderly fashion to moderately advanced topics ... Well motivated examples help the student ... to master the material thoroughly, and exercises test one's growing skill in addition to covering useful auxiliary facts ... years of teaching abstract algebra have enabled Vinberg to say the right thing at the right time." ---- Irving Kaplansky, MSRI

### Language Notes

Text: English (translation)

Original Language: Russian

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