Manuals+
Q & A | Deep Search | Upload

Wiley 0471368792

Abstract Algebra by I. N. Herstein (3rd Edition) - User Manual

1. Introduction to the Textbook

This manual provides an overview and guidance for the**Abstract Algebra, Third Edition** textbook by I. N. Herstein. The book serves as a concise introduction to abstract algebra, unfolding fundamental systems with the objective of reaching applicable and significant results. It is designed for students seeking a rigorous understanding of core algebraic concepts.

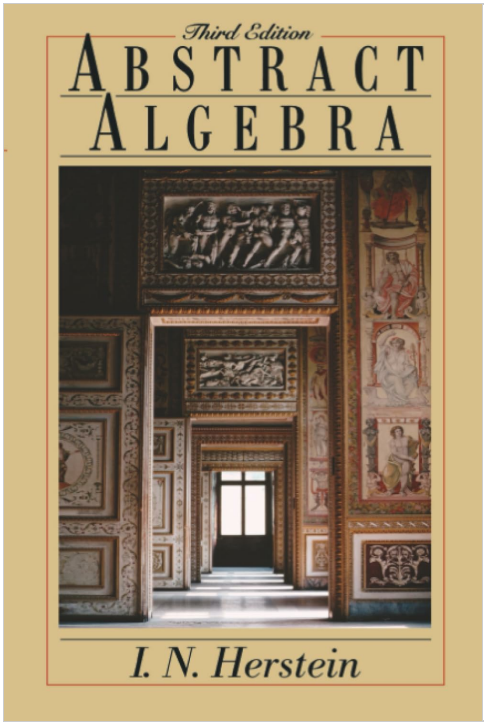

Image 1.1: Front cover of the Abstract Algebra textbook. It features the title 'Abstract Algebra' and the author 'I. N. Herstein' over an image of an ornate hallway.

2. Key Features and Pedagogical Approach

Herstein's *Abstract Algebra* is known for its direct and rigorous approach to the subject. The text aims to build a strong foundation in abstract mathematics, covering essential topics such as groups, rings, and fields. The pedagogical style emphasizes clear presentation of mathematical concepts and proofs.

- **Concise Introduction:** The book offers a streamlined introduction to abstract algebra, focusing on core principles.
- **Emphasis on Proofs:** A significant portion of the content is dedicated to presenting and developing mathematical proofs.
- **Problem Sets:** The textbook includes a variety of exercises designed to reinforce understanding and develop problem-solving skills. These exercises range in difficulty, encouraging students to engage deeply with the material.

3. Guidance for Students

To maximize learning from this textbook, students are encouraged to:

1. **Engage Actively with Proofs:** Do not merely read proofs; attempt to reconstruct them or understand each step thoroughly.
2. **Work Through Examples:** The book provides examples that illustrate concepts. Understanding these examples is crucial before attempting exercises.
3. **Solve Exercises Diligently:** The exercises are integral to mastering the material. Attempt problems from all difficulty levels to solidify comprehension.
4. **Review Fundamental Concepts:** Abstract algebra builds upon foundational mathematical principles. Ensure a solid grasp of prerequisites.

4. About the Author

Israel Nathan Herstein (1923-1988) was a distinguished mathematician renowned for his contributions to algebra, particularly in ring theory. He served as a professor at the University of Chicago starting in 1951. Throughout his career, Herstein authored over 100 research papers and more than a dozen books, establishing himself as a prominent figure in the field of abstract algebra.

5. Textbook Specifications

Publisher	Wiley
Publication Date	January 15, 1996
Edition	3rd Edition
Language	English
Print Length	272 pages
ISBN-10	0471368792
ISBN-13	978-0471368793
Item Weight	1.1 pounds
Dimensions	6 x 0.62 x 9 inches

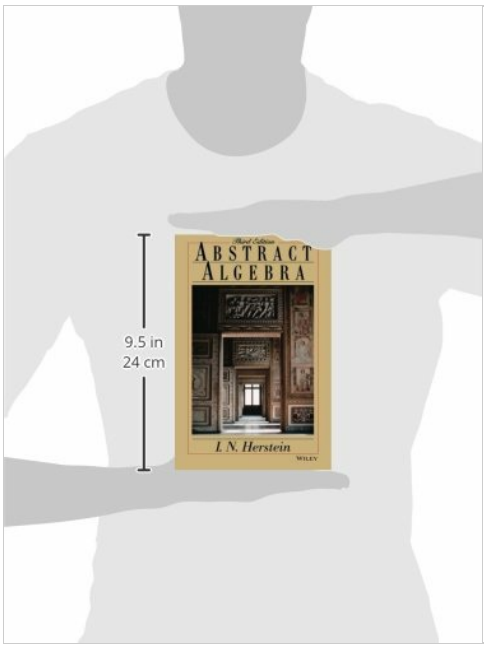

Image 5.1: A visual representation of the textbook's height, showing it held in hands with a measurement of 9.5 inches (24 cm).

Image 5.2: Back cover of the Abstract Algebra textbook. It displays the publisher's logo (Wiley), website address, and the ISBN-13 barcode (978-0471368793).

6. Publisher Information and Support

For additional resources, errata, or support related to this publication, please refer to the publisher's official website.

- **Publisher:** Wiley
- **Official Website:** www.wiley.com/college/herstein
- **ISBN-13:** 978-0471368793