

Dive into the World of Abstract Algebra with Krishna TB: An In-Depth Review

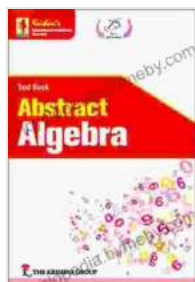
Abstract algebra, a captivating branch of mathematics, delves into the structures and properties of mathematical objects such as groups, rings, and fields. Krishna TB's Abstract Algebra is a comprehensive textbook that offers a rigorous and engaging exploration of this fascinating subject.

Krishna TB Abstract Algebra is a comprehensive textbook spanning 464 pages. With its clear and concise language, the book provides a solid foundation for students looking to delve into abstract algebra. The content is meticulously organized into 15 chapters, each covering a specific aspect of the subject.

- **Compact and Precise:** The book's compact format packs a wealth of information into a concise and straightforward presentation.
- **Clear and Accessible Language:** Krishna TB's writing style is clear and accessible, making the complex concepts of abstract algebra understandable even to beginners.
- **Rigorous and Comprehensive:** The book presents the material with rigor and thoroughness, ensuring a deep understanding of the subject matter.
- **Detailed Examples and Exercises:** Each chapter is accompanied by numerous worked examples and exercises, providing ample opportunities for students to practice and reinforce their understanding.

- **Comprehensive Coverage:** Krishna TB Abstract Algebra covers a wide range of topics, including group theory, ring theory, and field theory, providing a comprehensive overview of abstract algebra.

Chapter 1: : An to the basic concepts of abstract algebra, including sets, relations, and functions.



Krishna's TB Abstract Algebra Edition-2 | Pages-

464 | Code-1051 (Mathematics Book 15) by A.R Vasishtha

★ ★ ★ ★ ☆ 4.3 out of 5

Language : English

File size : 11265 KB

Lending : Enabled

Screen Reader: Supported

Print length : 262 pages



Chapter 2: Groups: Explores the structure and properties of groups, subgroups, and homomorphisms.

Chapter 3: Rings: Introduces rings, ideals, and ring homomorphisms, examining their algebraic properties.

Chapter 4: Fields: Delves into the concept of fields, their properties, and applications.

Chapter 5: Modules: Investigates modules over rings and their structure and properties.

Chapter 6: Vector Spaces: Examines vector spaces, linear transformations, and their applications.

Chapter 7: Inner Product Spaces: Introduces inner product spaces, their properties, and applications in geometry.

Chapter 8: Algebras: Explores the structure and properties of algebras over fields.

Chapter 9: Galois Theory: Introduces Galois theory and its applications to field extensions.

Chapter 10: Category Theory: Provides a brief to category theory, its concepts, and applications in mathematics.

Chapter 11: Homological Algebra: Explores the foundations of homological algebra and its applications in various mathematical disciplines.

Chapter 12: Algebraic Geometry: Introduces the basic concepts of algebraic geometry, including algebraic varieties and their properties.

Chapter 13: Algebraic Topology: Provides an overview of the fundamental concepts and applications of algebraic topology.

Chapter 14: Number Theory: Delves into the fundamental concepts and applications of number theory.

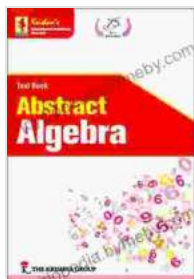
Chapter 15: Applications in Physics: Explores applications of abstract algebra in physics, including group theory in quantum mechanics and symmetries in particle physics.

Krishna TB Abstract Algebra is primarily intended for undergraduate and graduate students majoring in mathematics. It is also a valuable resource for researchers and professionals in mathematics, computer science, and other related fields.

- A strong understanding of the fundamental principles of abstract algebra
- Enhanced problem-solving skills through numerous practice exercises
- A deep appreciation for the beauty and elegance of abstract algebra
- Preparation for further study and research in abstract algebra and related fields

Krishna TB Abstract Algebra is an exceptional textbook that provides a thorough and engaging to abstract algebra. Its concise and accessible writing style, rigorous approach, and comprehensive coverage make it an invaluable resource for students, researchers, and professionals alike. If you seek to explore the fascinating world of abstract algebra, Krishna TB Abstract Algebra is the perfect book to guide you on your journey.

Alt attribute for image: Krishna TB Abstract Algebra, a comprehensive textbook covering the principles and applications of abstract algebra.



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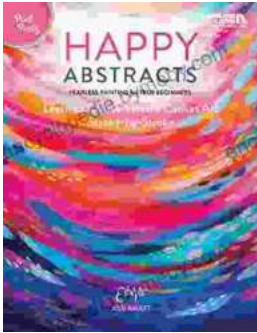
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