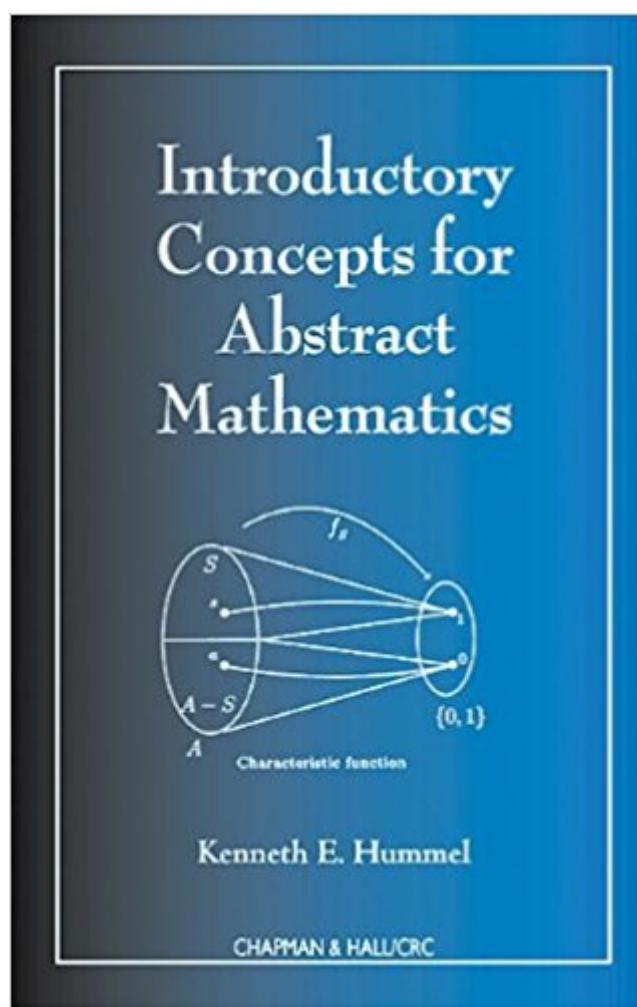


The book was found

# Introductory Concepts For Abstract Mathematics



## Synopsis

Beyond calculus, the world of mathematics grows increasingly abstract and places new and challenging demands on those venturing into that realm. As the focus of calculus instruction has become increasingly computational, it leaves many students ill prepared for more advanced work that requires the ability to understand and construct proofs. *Introductory Concepts for Abstract Mathematics* helps readers bridge that gap. It teaches them to work with abstract ideas and develop a facility with definitions, theorems, and proofs. They learn logical principles, and to justify arguments not by what seems right, but by strict adherence to principles of logic and proven mathematical assertions - and they learn to write clearly in the language of mathematics. The author achieves these goals through a methodical treatment of set theory, relations and functions, and number systems, from the natural to the real. He introduces topics not usually addressed at this level, including the remarkable concepts of infinite sets and transfinite cardinal numbers. *Introductory Concepts for Abstract Mathematics* takes readers into the world beyond calculus and ensures their voyage to that world is successful. It imparts a feeling for the beauty of mathematics and its internal harmony, and inspires an eagerness and increased enthusiasm for moving forward in the study of mathematics.

## Book Information

Hardcover: 344 pages

Publisher: Chapman and Hall/CRC; 1 edition (March 23, 2000)

Language: English

ISBN-10: 1584881348

ISBN-13: 978-1584881346

Product Dimensions: 9.4 x 6.3 x 0.9 inches

Shipping Weight: 1.4 pounds

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #810,969 in Books (See Top 100 in Books) #88 in Books > Science & Math > Mathematics > Pure Mathematics > Set Theory #300 in Books > Science & Math > Mathematics > Pure Mathematics > Discrete Mathematics #2217 in Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

## Customer Reviews

... very clearly written. Sophomore-level undergraduates should have no difficulty with the book.-Zentralblatt fur Mathematik

I have used this text for a Foundations in Mathematics course, and have subsequently found this book among the best that I have read. It would also be good for self-study, as most of the answers are included in the back--which is essential for a good self-study book at this level of Mathematics. Other books I would recommend are: Morash's "Bridge to Abstract mathematics

[Download to continue reading...](#)

Introductory Concepts for Abstract Mathematics The Genesis of the Abstract Group Concept: A Contribution to the History of the Origin of Abstract Group Theory (Dover Books on Mathematics) Linear Algebra: An Introduction to Abstract Mathematics (Undergraduate Texts in Mathematics) Proofs and Fundamentals: A First Course in Abstract Mathematics (Undergraduate Texts in Mathematics) Mathematics for Quantum Mechanics: An Introductory Survey of Operators, Eigenvalues, and Linear Vector Spaces (Dover Books on Mathematics) Abstract Algebra and Solution by Radicals (Dover Books on Mathematics) Abstract Algebra: An Inquiry Based Approach (Textbooks in Mathematics) Chapter Zero: Fundamental Notions of Abstract Mathematics (2nd Edition) Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Introductory DC/AC Electronics And Introductory DC/AC Circuits: Laboratory Manual, 6th Edition Concepts of Modern Mathematics (Dover Books on Mathematics) Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics I: Fractals in Pure Mathematics (Contemporary Mathematics) Pathophysiology: Introductory Concepts and Clinical Perspectives Introductory Nanoscience: Physical and Chemical Concepts Microsoft Office 2003: Introductory Concepts and Techniques, School Edition Computer Concepts: Illustrated Introductory Chemistry: Concepts and Critical Thinking (7th Edition) Introductory Graph Theory (Dover Books on Mathematics) Introductory Mathematics Introductory Combinatorics (Classic Version) (5th Edition) (Pearson Modern Classics for Advanced Mathematics Series)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)