

<<数学拾遗>>

图书基本信息

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内容概要

Beginning graduate students in mathematics and other quantitative subjects are expected to have a daunting breadth of mathematical knowledge, but few have such a background. This book will help students see the broad outline of mathematics and to fill in the gaps in their knowledge.

The author explains the basic points and a few key results of the most important undergraduate topics in mathematics, emphasizing the intuitions behind the subject. The topics include linear algebra, vector calculus, differential geometry, real analysis, point-set topology, differential equations, probability theory, complex analysis, abstract algebra, and more. An annotated bibliography offers a guide to further reading and more rigorous foundations.

This book will be an essential resource for advanced undergraduate and beginning graduate students in mathematics, the physical sciences, engineering, computer science, statistics, and economics, and for anyone else who needs to quickly learn some serious mathematics.

书籍目录

Preface On the Structure of Mathematics brief Summaries of Topics 0.1 Linear Algebra 0.2 Real Analysis 0.3 Differentiating Vector-Valued Functions 0.4 Point Set Topology 0.5 Classical Stokes' theorems 0.6 Differential forms and Stokes' Theorem 0.7 Curvature for Curves and Surfaces 0.8 Geometry 0.9 complex Analysis 0.10 Countability and the Axiom of Choice 0.11 Algebra 0.12 Lebesgue Integration 0.13 Fourier Analysis 0.14 Differential Equations 0.15 Combinatorics and Probability Theory 0.16 Algorithms 1 Linear Algebra 2 * and * Real Analysis 3 Calculus for Vector-Valued Functions 4 Point Set Topology 5 Classical Stokes' Theorems 6 differential Forms and Stokes' Thm.7 Curvature for Curves and Surfaces 8 Geometry 9 Complex Analysis 10 countability and the Axiom of choice 11 Algebra 12 Lebesgue Integration 13 fourier Analysis 14 differential Equations 15 Combinatorics and Probability 16 Algorithms A Equivalence Relations

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