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A Readable yet Rigorous

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Approach to an Essential Part of
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popular demand, Real Analysis
and Foundations, Third Edition
bridges the gap between classic
theoretical texts and less rigorous
ones, providing a smooth

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transition from logic and proofs to real analysis. Along with the basic material, the text covers Riemann-Stieltjes integrals, Fourier analysis, metric spaces and applications, and differential equations. New to the Third

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and the method of characteristics.
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examples and varying levels of
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and Thorough Explanations
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Understanding This best-selling book continues to give students a solid foundation in mathematical analysis and its applications. It prepares them for further exploration of measure theory, functional analysis, harmonic

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analysis, and beyond.

In the last 60 years, the use of the notion of category has led to a remarkable unification and simplification of mathematics.

Conceptual Mathematics introduces this tool for the

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learning, development, and use of mathematics, to beginning students and also to practising mathematical scientists. This book provides a skeleton key that makes explicit some concepts and procedures that are common

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to all branches of pure and applied mathematics. The treatment does not presuppose knowledge of specific fields, but rather develops, from basic definitions, such elementary categories as discrete dynamical

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systems and directed graphs; the fundamental ideas are then illuminated by examples in these categories. This second edition provides links with more advanced topics of possible study. In the new appendices and

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annotated bibliography the reader will find concise introductions to adjoint functors and geometrical structures, as well as sketches of relevant historical developments. This elementary presentation exposes readers to both the

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process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this

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book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.

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Partial Differential Equations

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nontrivial applications of
metric space topology to**

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answers, and 51
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edition.

**We live in a highly
connected world with
multiple self-interested
agents interacting and
myriad opportunities for
conflict and cooperation.**

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The goal of game theory is to understand these opportunities. This book presents a rigorous introduction to the mathematics of game theory without losing

sight of the joy of the subject. This is done by focusing on theoretical highlights (e.g., at least six Nobel Prize winning results are developed from scratch) and by

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**presenting exciting
connections of game
theory to other fields
such as computer science
(algorithmic game
theory), economics
(auctions and matching**

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**markets), social choice
(voting theory), biology
(signaling and
evolutionary stability),
and learning theory. Both
classical topics, such as
zero-sum games, and**

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**modern topics, such as
sponsored search
auctions, are covered.
Along the way, beautiful
mathematical tools used
in game theory are
introduced, including**

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**convexity, fixed-point
theorems, and
probabilistic arguments.
The book is appropriate
for a first course in game
theory at either the
undergraduate or**

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**graduate level, whether
in mathematics,
economics, computer
science, or statistics. The
importance of game-
theoretic thinking
transcends the academic**

setting—for every action we take, we must consider not only its direct effects, but also how it influences the incentives of others.

Introduction to Set

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Learn the basics of point-set topology with the understanding of its real-world application to a variety of other subjects including science, economics, engineering, and other areas of mathematics. **KEY**

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TOPICS: Introduces topology as an important and fascinating mathematics discipline to retain the readers interest in the subject. Is written in an accessible way for readers to understand the usefulness and importance of the application of

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degree theory, dynamical systems and chaos, graph theory, metric spaces, connectedness, and compactness. MARKET: A useful reference for readers wanting an intuitive introduction to topology. Among the best available reference

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introductions to general topology,
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Planning algorithms are impacting technical disciplines and industries around the world, including robotics, computer-aided design, manufacturing, computer graphics, aerospace applications, drug design, and protein folding. This coherent

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and comprehensive book unifies material from several sources, including robotics, control theory, artificial intelligence, and algorithms. The treatment is centered on robot motion planning, but integrates material on planning in

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discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The

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last part of the book delves into planning under differential constraints that arise when automating the motions of virtually any mechanical system. This text and reference is intended for students, engineers, and researchers in

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robotics, artificial intelligence, and control theory as well as computer graphics, algorithms, and computational biology.

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Introduction to Set Theory and

Topology describes the fundamental

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concepts of set theory and topology as well as its applicability to analysis, geometry, and other branches of mathematics, including algebra and probability theory.

Concepts such as inverse limit, lattice, ideal, filter, commutative

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diagram, quotient-spaces,
completely regular spaces,
quasicomponents, and cartesian
products of topological spaces are
considered. This volume consists of
21 chapters organized into two
sections and begins with an

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introduction to set theory, with emphasis on the propositional calculus and its application to propositions each having one of two logical values, 0 and 1. Operations on sets which are analogous to arithmetic operations are also

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discussed. The chapters that follow focus on the mapping concept, the power of a set, operations on cardinal numbers, order relations, and well ordering. The section on topology explores metric and topological spaces, continuous

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mappings, cartesian products, and other spaces such as spaces with a countable base, complete spaces, compact spaces, and connected spaces. The concept of dimension, simplexes and their properties, and cuttings of the plane are also

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analyzed. This book is intended for students and teachers of mathematics.

This book is an exposition of the theoretical foundations of hyperbolic manifolds. It is intended to be used both as a textbook and as

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a reference. Particular emphasis has been placed on readability and completeness of argument. The treatment of the material is for the most part elementary and self-contained. The reader is assumed to have a basic knowledge of algebra

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and topology at the first-year graduate level of an American university. The book is divided into three parts. The first part, consisting of Chapters 1-7, is concerned with hyperbolic geometry and basic properties of discrete groups of

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isometries of hyperbolic space. The main results are the existence theorem for discrete reflection groups, the Bieberbach theorems, and Selberg's lemma. The second part, consisting of Chapters 8-12, is devoted to the theory of hyperbolic

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manifolds. The main results are Mostow's rigidity theorem and the determination of the structure of geometrically finite hyperbolic manifolds. The third part, consisting of Chapter 13, integrates the first two parts in a development of the

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theory of hyperbolic orbifolds. The main results are the construction of the universal orbifold covering space and Poincare's fundamental polyhedron theorem.

Topology is a large subject with several branches, broadly

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categorized as algebraic topology, point-set topology, and geometric topology. Point-set topology is the main language for a broad range of mathematical disciplines, while algebraic topology offers as a powerful tool for studying problems

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in geometry and numerous other areas of mathematics. This book presents the basic concepts of topology, including virtually all of the traditional topics in point-set topology, as well as elementary topics in algebraic topology such as

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fundamental groups and covering spaces. It also discusses topological groups and transformation groups. When combined with a working knowledge of analysis and algebra, this book offers a valuable resource for advanced undergraduate and

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beginning graduate students of
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from curves and surfaces to manifolds in general. The book provides a broad introduction to the field of differentiable and Riemannian manifolds, tying together classical and modern formulations. It introduces manifolds

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in a both streamlined and mathematically rigorous way while keeping a view toward applications, particularly in physics. The author takes a practical approach, containing extensive exercises and focusing on applications, including

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the Hamiltonian formulations of mechanics, electromagnetism, string theory. The Second Edition of this successful textbook offers several notable points of revision. New to the Second Edition: New problems have been added and the

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level of challenge has been changed to the exercises Each section corresponds to a 60-minute lecture period, making it more user-friendly for lecturers Includes new sections which provide more comprehensive coverage of topics

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*Features a new chapter on
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theory, metric and topological spaces, connectedness, and compactness. 1975 edition. This text contains a detailed introduction to general topology and an introduction to algebraic topology via its most classical and

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The book offers a good introduction to topology

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through solved exercises. It is mainly intended for undergraduate students. Most exercises are given with detailed solutions. In the second edition, some significant changes have been made, other than the

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additional exercises. There are also additional proofs (as exercises) of many results in the old section "What You Need To Know", which has been improved and renamed in the new edition as "Essential Background".

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Indeed, it has been considerably beefed up as it now includes more remarks and results for readers' convenience. The interesting sections "True or False" and "Tests" have remained as they were, apart from a very

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few changes.

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*aid in student
comprehension; advanced
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frequently, with minimal
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wealth of exercises
reinforce vital skills and
invite additional self-*

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