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Students must prove all of the theorems in this undergraduate-level text, which features extensive outlines to assist in study and comprehension. Thorough and well-written, the treatment provides sufficient material

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for a one-year undergraduate course. The logical presentation anticipates students' questions, and complete definitions and expositions of topics relate new concepts to previously discussed subjects. Most of the material focuses on point-set topology with the exception of the last chapter.

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Topics include sets and functions, infinite sets and transfinite numbers, topological spaces and basic concepts, product spaces, connectivity, and compactness. Additional subjects include separation axioms, complete spaces, and homotopy and the fundamental group.

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Numerous hints and figures illuminate the text. Dover (2014) republication of the edition originally published by The Williams & Wilkins Company, Baltimore, 1975. See every Dover book in print at www.doverpublications.com

This text has been designed as a

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complete introduction to discrete mathematics, primarily for computer science majors in either a one or two semester course. The topics addressed are of genuine use in computer science, and are presented in a logically coherent fashion. The material has been organized and

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interrelated to minimize the mass of definitions and the abstraction of some of the theory. For example, relations and directed graphs are treated as two aspects of the same mathematical idea. Whenever possible each new idea uses previously encountered material, and then developed in such a

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way that it simplifies the more complex ideas that follow.

Aimed at undergraduate mathematics and computer science students, this book is an excellent introduction to a lot of problems of discrete mathematics. It discusses a number of selected results and methods, mostly

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from areas of combinatorics and graph theory, and it uses proofs and problem solving to help students understand the solutions to problems. Numerous examples, figures, and exercises are spread throughout the book.

Annual Catalogue
Logical Methods

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An Open Introduction

Topology I

An Introduction to Mathematical
Thinking

**Barnett, Analytic Trigonometry is a text
that students can actually read,
understand, and apply. Concept
development moves from the concrete to**

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abstract to engage the student. Almost every concept is illustrated by an example followed by a matching problem allowing students to practice knowledge precisely when they acquire it. To gain student interest quickly, the text moves directly into trigonometric concepts and applications and reviews

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essential material from prerequisite courses only as needed. Extensive chapter review summaries, chapter and cumulative review exercises with answers keyed to the corresponding text sections, effective use of color comments and annotations, and prominent displays of important material all help

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the student master the subject. Analytic Trigonometry 11th edition includes updated applications from a range of different fields to convince all students that trigonometry is really useful. The seamless integration of Barnett, Analytical Trigonometry 11th edition with WileyPLUS, a research-based,

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online environment for effective teaching and learning, builds student confidence in mathematics because it takes the guesswork out of studying by providing them with a clear roadmap: what to do, how to do it, and whether they did it right. WileyPLUS sold separately from text.

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For courses currently engaged, or leaning toward calculus reform.

Callahan fully embraces the calculus reform movement in technology and pedagogy, while taking it a step further with a unique organization and applications to real-world problems.

Susanna Epp's DISCRETE

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**MATHEMATICS: AN
INTRODUCTION TO
MATHEMATICAL REASONING,**
provides the same clear introduction to
discrete mathematics and mathematical
reasoning as her highly acclaimed
**DISCRETE MATHEMATICS WITH
APPLICATIONS,** but in a compact

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form that focuses on core topics and omits certain applications usually taught in other courses. The book is appropriate for use in a discrete mathematics course that emphasizes essential topics or in a mathematics major or minor course that serves as a transition to abstract mathematical

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thinking. The ideas of discrete mathematics underlie and are essential to the science and technology of the computer age. This book offers a synergistic union of the major themes of discrete mathematics together with the reasoning that underlies mathematical thought. Renowned for her lucid,

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accessible prose, Epp explains complex, abstract concepts with clarity and precision, helping students develop the ability to think abstractly as they study each topic. In doing so, the book provides students with a strong foundation both for computer science and for other upper-level mathematics

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description or the product text may not
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**Geometry, Statistics and Probability
Discrete Mathematical Structures for
Computer Science**

The Art of Thinking Abstractly and

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Mathematically

**Curriculum Handbook with General
Information Concerning ... for the
United States Air Force Academy
Numerical Solution of Eigenvalue
Problems**

*Solomon Lefschetz pioneered the
field of topology--the study of the*

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properties of many-sided figures and their ability to deform, twist, and stretch without changing their shape. According to Lefschetz, "If it's just turning the crank, it's algebra, but if it's got an idea in it, it's topology." The very word topology comes from

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the title of an earlier Lefschetz monograph published in 1920. In Topics in Topology Lefschetz developed a more in-depth introduction to the field, providing authoritative explanations of what would today be considered the basic tools of

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algebraic topology. Lefschetz moved to the United States from France in 1905 at the age of twenty-one to find employment opportunities not available to him as a Jew in France. He worked at Westinghouse Electric Company in Pittsburgh and there suffered

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*a horrible laboratory accident,
losing both hands and forearms.
He continued to work for
Westinghouse, teaching
mathematics, and went on to
earn a Ph.D. and to pursue an
academic career in mathematics.
When he joined the mathematics*

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faculty at Princeton University, he became one of its first Jewish faculty members in any discipline. He was immensely popular, and his memory continues to elicit admiring anecdotes. Editor of Princeton University Press's Annals of

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Mathematics from 1928 to 1958, Lefschetz built it into a world-class scholarly journal. He published another book, Lectures on Differential Equations, with Princeton in 1946.

A precise, relevant, comprehensive approach to

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mathematical concepts...

This text is designed for students preparing for future coursework in areas such as math, computer science, and engineering.

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effectively it addresses the main portion of the discrete market, which is typically characterized as the mid to upper level in rigor. The strength of Rosen's approach has been the effective balance of theory with relevant applications, as well as the overall

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*comprehensive nature of the
topic coverage.*

*Cornell University Courses of
Study*

*Advanced Engineering
Mathematics*

Introduction to Topology

Discrete Mathematics and Its

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Applications

Elementary and Beyond

Many believe mathematics
is only about
calculations, formulas,
numbers, and strange
letters. But mathematics

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is much more than just
crunching numbers or
manipulating symbols.
Mathematics is about
discovering patterns,
uncovering hidden
structures, finding

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counterexamples, and
thinking logically.

Mathematics is a way of
thinking. It is an
activity that is both
highly creative and
challenging. This book

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offers an introduction
to mathematical
reasoning for beginning
university or college
students, providing a
solid foundation for
further study in

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mathematics, computer science, and related disciplines. Written in a manner that directly conveys the sense of excitement and discovery at the heart of doing

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science, its 25 short and visually appealing chapters cover the basics of set theory, logic, proof methods, combinatorics, graph theory, and much more.

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In the book you will,
among other things, find
answers to: What is a
proof? What is a
counterexample? What
does it mean to say that
something follows

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logically from a set of
premises? What does it
mean to abstract over
something? How can
knowledge and
information be
represented and used in

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calculations? What is
the connection between
Morse code and Fibonacci
numbers? Why could it
take billions of years
to solve Hanoi's Tower?
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especially appropriate
for students
encountering such
concepts for the very
first time. Designed to
ease the transition to a
university or college

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level study of
mathematics or computer
science, it also
provides an accessible
and fascinating gateway
to logical thinking for
students of all

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disciplines.

Handbook of Discrete and
Combinatorial

Mathematics provides a
comprehensive reference
volume for

mathematicians, computer

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scientists, engineers,
as well as students and
reference librarians.
The material is
presented so that key
information can be
located and used quickly

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and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into

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clearly identifiable
parts: definitions,
facts, and examples.
Examples are provided to
illustrate some of the
key definitions, facts,
and algorithms. Some

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curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major

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revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have

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grown in importance,
which are covered in
this edition.

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Features: • Includes applications so students can see right away how to use the theory. This classic text has sold almost 12,000 units. Contains numerous

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examples. Includes
chapters on Boolean
Algebras, groups,
quotient groups,
symmetry groups in three
dimensions, Polya-
Burnside method of

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enumeration, monoids and
machines, rings and
fields, polynomial and
Euclidean rings,
quotient rings, field
extensions, Latin
squares, geometrical

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constructions, and error-correcting codes.

Answers to odd-numbered exercises so students can check their work

About The Book: The book covers all the group,

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ring, and field theory
that is usually
contained in a standard
modern algebra course;
the exact sections
containing this material
are indicated in the

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Table of Contents. It stops short of the Sylow theorems and Galois theory. These topics could only be touched on in a first course, and the author feels that

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more time should be
spent on them if they
are to be appreciated.

Upper primary
Elements of Modern
Algebra, International
Edition

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General Survey

Applied Discrete

Structures

Student Solutions Guide

for Discrete Mathematics

and Its Applications

ELEMENTS OF MODERN ALGEBRA, 7e,

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INTERNATIONAL EDITION with its user-friendly format, provides you with the tools you need to get succeed in abstract algebra and develop mathematical maturity as a bridge to higher-level mathematics courses.. Strategy boxes give you guidance and explanations about techniques and enable you to become

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more proficient at constructing proofs. A summary of key words and phrases at the end of each chapter help you master the material. A reference section, symbolic marginal notes, an appendix, and numerous examples help you develop your problem solving skills.

Accompanying CD-ROM contains ... "a

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chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label.

Most of the mathematical ideas presented in this volume are based on papers given at an AMS meeting held at Fairfield University in October 1983. The unifying theme of the talks was Geometric Function

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Theory. Papers in this volume generally represent extended versions of the talks presented by the authors. In addition, the proceedings contain several papers that could not be given in person. A few of the papers have been expanded to include further research results obtained in the time between the conference and

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submission of manuscripts. In most cases, an expository section or history of recent research has been added. The authors' new research results are incorporated into this more general framework. The collection represents a survey of research carried out in recent years in a variety of topics. The paper by Y. J. Leung deals

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with the Loewner equation, classical results on coefficient bodies and modern optimal control theory. Glenn Schober writes about the class Σ , its support points and extremal configurations. Peter Duren deals with support points for the class S , Loewner chains and the process of truncation. A

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very complete survey about the role of polynomials and their limits in class \$\$\$ is contributed by T. J. Suffridge. A generalization of the univalence criterion due to Nehari and its relation to the hyperbolic metric is contained in the paper by David Minda. The omitted area problem for functions in class \$\$\$ is

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solved in the paper by Roger Barnard. New results on angular derivatives and domains are represented in the paper by Burton Rodin and Stefan E. Warschawski, while estimates on the radial growth of the derivative of univalent functions are given by Thom MacGregor. In the paper by B. Bshouty and W. Hengartner a conjecture

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of Bombieri is proved for some cases. Other interesting problems for special subclasses are solved by B. A. Case and J. R. Quine; M. O. Reade, H. Silverman and P. G. Todorov; and, H. Silverman and E. M. Silvia. New univalence criteria for integral transforms are given by Edward Merkes. Potential

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theoretic results are represented in the paper by Jack Quine with new results on the Star Function and by David Tepper with free boundary problems in the flow around an obstacle. Approximation by functions which are the solutions of more general elliptic equations are treated by A. Dufresnoy, P. M. Gauthier and W. H. Ow.

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At the time of preparation of these manuscripts, nothing was known about the proof of the Bieberbach conjecture. Many of the authors of this volume and other experts in the field were recently interviewed by the editor regarding the effect of the proof of the conjecture. Their ideas regarding future trends in research

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in complex analysis are presented in the epilogue by Dorothy Shaffer. A graduate level course in complex analysis provides adequate background for the enjoyment of this book.

Discrete Mathematics: Introduction to
Mathematical Reasoning
Professional Standards for Teaching

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properties of mathematical objects. These include matrices, functions, graphs, trees, lattices and algebraic structures. The algebraic structures that are discussed are monoids, groups, rings, fields and vector spaces. Website: <http://discretemath.org> Applied Discrete Structures has been approved by the American Institute of

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Mathematics as part of their Open Textbook Initiative. For more information on open textbooks, visit <http://www.aimath.org/textbooks/>. This version was created using Mathbook XML (<https://mathbook.pugetsound.edu/>) Al Doerr is Emeritus Professor of Mathematical Sciences at UMass Lowell. His interests

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include abstract algebra and discrete mathematics. Ken Levasseur is a Professor of Mathematical Sciences at UMass Lowell. His interests include discrete mathematics and abstract algebra, and their implementation using computer algebra systems.

This book covers elementary discrete

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mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of

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functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

Algebraic and Combinatorial

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Computational Biology introduces students and researchers to a panorama of powerful and current methods for mathematical problem-solving in modern computational biology. Presented in a modular format, each topic introduces the biological foundations of the field, covers specialized mathematical theory, and

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concludes by highlighting connections with ongoing research, particularly open questions. The work addresses problems from gene regulation, neuroscience, phylogenetics, molecular networks, assembly and folding of biomolecular structures, and the use of clustering methods in biology. A number of these

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chapters are surveys of new topics that have not been previously compiled into one unified source. These topics were selected because they highlight the use of technique from algebra and combinatorics that are becoming mainstream in the life sciences. Integrates a comprehensive selection of tools from computational

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biology into educational or research programs Emphasizes practical problem-solving through multiple exercises, projects and spinoff computational simulations Contains scalable material for use in undergraduate and graduate-level classes and research projects Introduces the reader to freely-available professional

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*software Supported by illustrative datasets
and adaptable computer code*

An Elementary Algebra

Topics in Topology

Mathematics for Computer Science

The Curry-Howard Isomorphism

MODERN ALGEBRA WITH

APPLICATIONS

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Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math

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majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof"

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course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by

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contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While

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there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free

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electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at

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page number Statistics: Unlocking the
Power of Data, 2nd Edition continues
to utilize these intuitive methods like
randomization and bootstrap intervals

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to introduce the fundamental idea of statistical inference. These methods are brought to life through authentically relevant examples, enabled through easy to use statistical software, and are accessible at very early stages of a course. The program includes the more

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traditional methods like t-tests, chi-square tests, etc. but only after students have developed a strong intuitive understanding of inference through randomization methods. The focus throughout is on data analysis and the primary goal is to enable students to

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effectively collect data, analyze data, and interpret conclusions drawn from data. The program is driven by real data and real applications.

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calculus and its numerous applications. This first volume collects authoritative chapters covering the mathematical theory of fractional calculus, including fractional-order operators, integral transforms and equations, special functions, calculus of variations, and

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probabilistic and other aspects.

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Discrete Mathematics in the First Two
Years

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Computational Biology
Unlocking the Power of Data

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The Mathematics of Data
Discovering Discrete Dynamical
Systems is a mathematics
textbook designed for use in a
student-led, inquiry-based
course for advanced
mathematics majors. Fourteen

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modules each with an opening exploration, a short exposition and related exercises, and a concluding project guide students to self-discovery on topics such as fixed points and their classifications, chaos and

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fractals, Julia and Mandelbrot sets in the complex plane, and symbolic dynamics. Topics have been carefully chosen as a means for developing student persistence and skill in exploration, conjecture, and

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generalization while at the same time providing a coherent introduction to the fundamentals of discrete dynamical systems. This book is written for undergraduate students with the prerequisites for a first analysis

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course, and it can easily be used by any faculty member in a mathematics department, regardless of area of expertise. Each module starts with an exploration in which the students are asked an open-ended

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question. This allows the students to make discoveries which lead them to formulate the questions that will be addressed in the exposition and exercises of the module. The exposition is brief and has been written with

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the intent that a student who has taken, or is ready to take, a course in analysis can read the material independently. The exposition concludes with exercises which have been designed to both illustrate and

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explore in more depth the ideas covered in the exposition. Each module concludes with a project in which students bring the ideas from the module to bear on a more challenging or in-depth problem. A section entitled "To

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the Instructor" includes suggestions on how to structure a course in order to realize the inquiry-based intent of the book. The book has also been used successfully as the basis for an independent study course and as

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a supplementary text for an
analysis course with traditional
content.

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mathematics teaching on the
basis of two assumptions:

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teachers are primary figures in changing the way mathematics is taught and learned in schools and change requires that teachers have long-term support and adequate resources.

Numerical Solution of Eigenvalue

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Search HandbookUniversity of
Pennsylvania Press
Discovering Discrete Dynamical
Systems
Statistics
Discrete Mathematics

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An introduction to the differential
and integral calculus

The Academic Job Search
Handbook

*This up-to-date survey of the whole
field of topology is the flagship of
the topology subseries of the*

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Encyclopaedia. The book gives an overview of various subfields, beginning with the elements and proceeding right up to the present frontiers of research.

In this book, which may be used as a self-contained text for a

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*beginning course, Professor
Lefschetz aims to give the reader a
concrete working knowledge of the
central concepts of modern
combinatorial topology: complexes,
homology groups, mappings in
spheres, homotopy, transformations*

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*and their fixed points, manifolds
and duality theorems. Each chapter
ends with a group of problems.
Originally published in 1949. The
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*Academic Job Search Handbook
has assisted job seekers in all
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for faculty positions. The guide
includes information on aspects of
the search that are common to all
levels, with invaluable tips for those*

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seeking their first or second faculty position. This new edition provides updated advice and addresses hot topics in the competitive job market of today, including the challenges faced by dual-career couples, job search issues for pregnant

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candidates, and advice on how to deal with gaps in a CV. The chapter on alternatives to academic jobs has been expanded, and sample resumes from individuals seeking nonfaculty positions are included. The book begins with an overview

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of the hiring process and a timetable for applying for academic positions. It then gives detailed information on application materials, interviewing, negotiating job offers, and starting the new job. Guidance throughout is aimed at

all candidates, with frequent reference to the specifics of job searches in scientific and technical fields as well as those in the humanities and social sciences. Advice on seeking postdoctoral opportunities is also included.

Perhaps the most significant contribution is the inclusion of sample vitas. The Academic Job Search Handbook describes the organization and content of the vita and includes samples from a variety of fields. In addition to CVs

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and research statements, new in this edition are a sample interview itinerary, a teaching portfolio, and a sample offer letter. The job search correspondence section has also been updated, and there is current information on Internet

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*search methods and useful
websites.*

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Force Academy*

*Topics in Complex Analysis
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