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appropriate for a first or
second year undergraduate
course for math majors,
especially those who will go
on to teach. Since Spring
2013, the book has been used
as the primary textbook or a

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supplemental resource at
more than 75 colleges and
universities around the
world (see the partial
adoptions list).

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Susanna Epp's DISCRETE
MATHEMATICS: AN INTRODUCTION
TO MATHEMATICAL REASONING

provides a clear
introduction to discrete
mathematics and mathematical
reasoning in a compact form
that focuses on core topics.

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Discrete Mathematics:

Introduction to Mathematical

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o Discrete mathematics deals with finite and countably infinite sets o Seems to be a term rarely used by

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mathematicians, who say what
they are doing more
specifically. o Some
branches of discrete
mathematics are: •

Combinatorics (how to count
things, how to make
combinatorial objects that

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*Introduction to Discrete
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Discrete Mathematics: an
Introduction to Proofs and
Combinatorics: Student Text
by Kevin Ferland

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(2008-03-06) Hardcover -
January 1, 1847 by Kevin
Ferland (Author) 4.7 out of
5 stars 13 ratings

*Discrete Mathematics: an
Introduction to Proofs and
...*

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An Introduction To 1.1 An
Overview What is discrete
mathematics? Roughly
speaking, it is the study of
discrete objects. Here,
discrete means \containing
distinct or unconnected
elements." Examples include:

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Determining whether a mathematical argument is logically correct. Studying the relationship between finite sets.

*A Spiral Workbook for
Discrete Mathematics*

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This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course

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*Discrete Mathematics: An
Open Introduction: Levin,
Oscar ...*

This text aims to give an
introduction to select

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topics in discrete mathematics at a level appropriate for first or second year undergraduate math majors, especially those who intend to teach middle and high school mathematics. The book began as a set of notes for

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the Discrete Mathematics course at the University of Northern Colorado.

This course serves both as

*Discrete - An Open
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Open Introduction, 3rd
edition Oscar Levin.

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proofs, but how to think
clearly and present cases
logically beyond this
course. Though it is
presented from a
mathematician's perspective,
you will learn ...

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*Mathematics: A Discrete
Introduction: Scheinerman,
Edward ...*

Intended for a one-term
course in discrete
mathematics, to prepare
freshmen and sophomores for
further work in computer

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science as well as
mathematics. Sets, proof
techniques, logic,
combinatorics, and graph
theory are covered in
concise form.

An Introduction to Discrete

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Discrete Mathematics is the language of Computer Science. One needs to be fluent in it to work in many fields including data science, machine learning,

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Engineering (it
is not a coincidence that
math puzzles are often used
for interviews).

*Introduction to Discrete
Mathematics for Computer
Science ...*

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Discrete Mathematics ? It involves distinct values; i.e. between any two points, there are a countable number of points. For example, if we have a finite set of objects, the function can be defined as a list of ordered

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pairs having these objects,
and can be presented as a
complete list of those
pairs. Topics in Discrete
Mathematics

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Introduction -*

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Tutorialspoint To

Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous.

Discrete mathematics -

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Wikipedia
This textbook, “Discrete
Mathematics: An Open
Introduction”, by Oscar
Levin, provides a good
overview of topics in
Discrete Mathematics. The
primary focus of this text

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is not to provide a rigorous mathematical foundation for Computer Science students; instead, it is targeted towards first and second year undergraduate math majors who will go on to teach middle school and high

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*Discrete Mathematics: An
Open Introduction - 3rd
Edition ...*

A set X is a subset of set Y
(Written as $X \subseteq Y$) if every
element of X is an element

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of set Y . Example 1 ? Let, $X = \{1, 2, 3, 4, 5, 6\}$ and $Y = \{1, 2\}$. Here set Y is a subset of set X as all the elements of set Y is in set X . Hence, we can write $Y \subseteq X$.

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*Discrete Mathematics - Sets
- Tutorialspoint*

Discrete Mathematics:

Introduction to Discrete
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discussed:1. What is

Discrete Mathematics?2. What
is the need to study

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Mathematics - YouTube*

272 5 An Introduction to
Discrete Probability If we
assume in Example 5.2, that
our dice are “fair,” namely

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that each of the six possibilities for a particular dice has probability $1/6$, then each of the 3^6 rolls W has probability $\Pr(w) = 1/36$. We can also consider “loaded dice” in which there is a different distribution of

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edition. If you need the 2nd
edition for a course you are
taking, it can be found as a

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by searching its isbn:

1534970746 This gentle
introduction to discrete
mathematics is written for
first and second year math
majors, especially those who
intend to teach. The text

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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

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proof" 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,

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Introduction to graph theory. Along the
way proofs are introduced,
including proofs by
contradiction, proofs by
induction, and combinatorial
proofs. The book contains
over 470 exercises,
including 275 with solutions

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and over 100 with hints.

There are also Investigate!

Mathematical
activities throughout the

text to support active,

inquiry based learning.

While there are many fine

discrete math textbooks

available, this text has the

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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 electronic

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introduction. 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

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book's website at

discrete.openmathbooks.org

This concise, undergraduate-level text focuses on combinatorics, graph theory with applications to some standard network

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Introduction To problems, and
algorithms. More than 200
exercises, many with
complete solutions. 1991
edition.

Solutions manual to
accompany Logic and Discrete

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Introduction This book
Mathematical features a unique
combination of comprehensive
coverage of logic with a
solid exposition of the most
important fields of discrete
mathematics, presenting

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material that has been tested and refined by the authors in university courses taught over more than a decade. Written in a clear and reader-friendly style, each section ends with an extensive set of

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exercises, most of them
provided with complete
solutions which are
available in this
accompanying solutions
manual.

MATHEMATICS: A DISCRETE

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INTRODUCTION Teaches students the fundamental concepts in discrete mathematics and proof-writing skills. With its clear presentation, the text shows students how to present cases logically

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beyond this course. All of the material is directly applicable to computer science and engineering, but it is presented from a mathematician's perspective. Students will learn that discrete mathematics is very

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useful, especially those whose interests lie in computer science and engineering, as well as those who plan to study probability, statistics, operations research, and other areas of applied

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Known for its accessible,
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introduces discrete
mathematics with clarity and
precision. Coverage
emphasizes the major themes

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of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer

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Introduction, algorithm
analysis, recursive
thinking, computability,
automata, cryptography and
combinatorics, students
discover that ideas of
discrete mathematics
underlie and are essential

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to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses.

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This textbook introduces
discrete mathematics by
emphasizing the importance

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of reading and writing
proofs. Because it begins by
carefully establishing a
familiarity with
mathematical logic and
proof, this approach suits
not only a discrete
mathematics course, but can

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also function as a transition to proof. Its unique, deductive perspective on mathematical logic provides students with the tools to more deeply understand mathematical methodology—an approach that

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the author has successfully
classroom tested for
decades. Chapters are
helpfully organized so that,
as they escalate in
complexity, their underlying
connections are easily
identifiable. Mathematical

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logic and proofs are first introduced before moving onto more complex topics in discrete mathematics. Some of these topics include:
Mathematical and structural induction
Set theory
Combinatorics
Functions,

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relations, and ordered sets
Boolean algebra and Boolean
functions Graph theory
Introduction to Discrete
Mathematics via Logic and
Proof will suit intermediate
undergraduates majoring in
mathematics, computer

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Introduction, engineering, and
related subjects with no
formal prerequisites beyond
a background in secondary
mathematics.

Discrete Mathematics covers
such a wide range of topics

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that it is difficult to give a simple definition of the subject. Whereas calculus deals with continuous or even smooth objects, discrete mathematics deals with things that come in "chunks" that can be

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Introduction. We will be a lot more precise about just what sort of "chunks" we are dealing with in the later chapters. If your mathematical background is only high school calculus you could well believe that

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mathematics is only about numbers functions and formulas for solving problems. If this is the case, the topics in this book may be quite a surprise because for mathematicians, computer scientists and

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engineers, Discrete
Mathematics includes logic,
set theory, enumeration,
networks, automata, formal
languages and many other
discrete structures. That is
what this book is about. On
the other hand, in 19

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lectures we can only present an introduction to the subject and we must leave other important topics such as graph theory, error-correcting codes, discrete probability theory and applications to theoretical

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Introduction to a second
or third course. The topics
covered are set theory,
logic, Boolean algebra,
counting, generating
functions, recurrence
relations, finite automata
and formal languages with a

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lot of emphasis on counting.
The set theory and logic is
basic material which will be
useful many courses besides
Discrete Mathematics.

Counting problems which look
quite hard when stated in
ordinary English can often

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be solved easily when translated into the language of set theory. We give many examples that reduce to counting the number of functions of various types between sets, or counting the number of subsets of a

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and pseudocode Includes an
appendix on basic circuit
design which provides a real-
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by drawing on multiple
topics covered in the book
to design a circuit that

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adds two eight-digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering. Prior

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Introduction To graduate school, he worked as both an environmental engineer and as an actuarial analyst. He graduated from Arizona State University in 2008 with a PhD in Mathematics, specializing in Geometric

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Mechanics. Since 2012, he has worked at Zayed University in Dubai. This is his second mathematics textbook.

This concise, undergraduate-level text focuses on

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Introduction To combinatorics, graph theory with applications to some standard network optimization problems, and algorithms. Geared toward mathematics and computer science majors, it emphasizes applications,

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material and providing
answers to selected
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What sort of mathematics do

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I need for computer science?
In response to this
frequently asked question, a
pair of professors at the
University of California at
San Diego created this text.
Its sources are two of the
university's most basic

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courses: Discrete
Mathematics, and Mathematics
for Algorithm and System
Analysis. Intended for use
by sophomores in the first
of a two-quarter sequence,
the text assumes some
familiarity with calculus.

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Topics include Boolean functions and computer arithmetic; logic; number theory and cryptography; sets and functions; equivalence and order; and induction, sequences, and series. Multiple choice

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questions for review appear
throughout the text.

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