

Discrete Mathematics With Application Susanna Solution Manual

This approachable text studies discrete objects and the relationships that bind them. It helps students understand and apply the power of discrete math to digital computer systems and other modern applications. It provides excellent preparation for courses in linear algebra, number theory, and modern/abstract algebra and for computer science courses in data structures, algorithms, programming languages, compilers, databases, and

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

computation. * Covers all recommended topics in a self-contained, comprehensive, and understandable format for students and new professionals * Emphasizes problem-solving techniques, pattern recognition, conjecturing, induction, applications of varying nature, proof techniques, algorithm development and correctness, and numeric computations * Weaves numerous applications into the text * Helps students learn by doing with a wealth of examples and exercises: - 560 examples worked out in detail - More than 3,700 exercises - More than 150 computer assignments - More than 600 writing projects * Includes chapter summaries of important vocabulary, formulas,

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

and properties, plus the chapter review exercises * Features interesting anecdotes and biographies of 60 mathematicians and computer scientists * Instructor's Manual available for adopters * Student Solutions Manual available separately for purchase (ISBN: 0124211828)

This book is a short, concise introduction to key mathematical ideas for computing students which develops their understanding of discrete mathematics and its application in computing. The topics are presented in a well defined, logical order that build upon each other and are constantly reinforced by worked examples. Reliance on students' previous

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

mathematical experience is kept to a minimum, though some basic algebraic manipulation is required. This book is appropriate for CS and Math students in an undergraduate Discrete Math course. The content constitutes an accepted core of mathematics for computer scientists (for example, the formal methods used in computer science draw heavily on the discrete mathematical concepts covered here, particularly logic, sets, relations and functions). Emphasis is placed on clear and careful explanations of basic ideas and on building confidence in developing mathematical competence through carefully selected exercises. All chapters

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

conclude with short applications/case studies relevant to computing, which provide further motivation to engage with the mathematical ideas involved, and also demonstrate how the mathematics can be applied in a computing context.

Discrete Mathematics and its Applications is a focused introduction to the primary themes in a discrete mathematics course, as introduced through extensive applications, expansive discussion, and detailed exercise sets. These themes include mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, and enhanced problem-solving skills through modeling. Its intent is to demonstrate the

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

relevance and practicality of discrete mathematics to all students. The Fifth Edition includes a more thorough and linear presentation of logic, proof types and proof writing, and mathematical reasoning. This enhanced coverage will provide students with a solid understanding of the material as it relates to their immediate field of study and other relevant subjects. The inclusion of applications and examples to key topics has been significantly addressed to add clarity to every subject. True to the Fourth Edition, the text-specific web site supplements the subject matter in meaningful ways, offering additional material for students and instructors. Discrete math is

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

an active subject with new discoveries made every year. The continual growth and updates to the web site reflect the active nature of the topics being discussed. The book is appropriate for a one- or two-term introductory discrete mathematics course to be taken by students in a wide variety of majors, including computer science, mathematics, and engineering. College Algebra is the only explicit prerequisite. 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 from areas of

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

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.

Student Solutions Manual and Study Guide, Discrete Mathematics with Applications
Discrete Mathematical Structures for Computer Science
Discrete Mathematics:
Introduction to Mathematical Reasoning
Discrete Mathematics and Its Applications

Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

mathematicians, computer scientists, engineers, as well as students and reference librarians. The material is presented so that key information can be located and used quickly and easily. Each chapter includes a glossary. Individual topics are covered in sections and subsections within chapters, each of which is organized into clearly identifiable parts: definitions, facts, and examples. Examples are provided to illustrate some of the key definitions, facts, and

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

algorithms. Some curious and entertaining facts and puzzles are also included. Readers will also find an extensive collection of biographies. This second edition is a major revision. It includes extensive additions and updates. Since the first edition appeared in 1999, many new discoveries have been made and new areas have grown in importance, which are covered in this edition.

DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, Metric Edition explains complex, abstract concepts

**File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual**

with clarity and precision and provides a strong foundation for computer science and upper-level mathematics courses of the computer age. Author Susanna Epp presents not only the major themes of discrete mathematics, but also the reasoning that underlies mathematical thought. Students develop the ability to think abstractly as they study the ideas of logic and proof. While learning about such concepts as logic circuits and computer addition, algorithm analysis,

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

recursive thinking, computability, automata, cryptography and combinatorics, students discover that the ideas of discrete mathematics underlie and are essential to today's science and technology.

Advances in discrete mathematics are presented in this book with applications in theoretical mathematics and interdisciplinary research. Each chapter presents new methods and techniques by leading experts. Unifying interdisciplinary

**File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual**

applications, problems, and approaches of discrete mathematics, this book connects topics in graph theory, combinatorics, number theory, cryptography, dynamical systems, finance, optimization, and game theory. Graduate students and researchers in optimization, mathematics, computer science, economics, and physics will find the wide range of interdisciplinary topics, methods, and applications covered in this book engaging and useful.

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

This introduction to discrete mathematics is aimed at freshmen and sophomores in mathematics and computer science. It begins with a survey of number systems and elementary set theory before moving on to treat data structures, counting, probability, relations and functions, graph theory, matrices, number theory and cryptography. The end of each section contains problem sets with selected solutions, and good examples occur throughout the text.

AISE DISCRETE MATHEMATICS

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual
WITH APPLICATIONS.

*A Discrete Introduction
Mathematics with
Applications*

*An Introduction to
Abstract Mathematics*

This concise, undergraduate-level text focuses on combinatorics, graph theory with applications to some standard network optimization problems, and algorithms. More than 200 exercises, many with complete solutions. 1991 edition.

This book prepares students for the more abstract mathematics courses that follow calculus. The author introduces students to proof techniques, analyzing proofs, and writing proofs of their own. It also provides a solid introduction to such

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

topics as relations, functions, and cardinalities of sets, as well as the theoretical aspects of fields such as number theory, abstract algebra, and group theory.

This text is designed for the sophomore/junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math, computer science and engineering. Rosen has become a bestseller largely due to how 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

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

overall comprehensive nature of the topic coverage.

Susanna Epp's DISCRETE

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

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

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

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, 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 courses. Important Notice: Media content referenced within the

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

product description or the product text may not be available in the ebook version.

Discrete Mathematics With Applications + Webassign, Single-term Printed Access Card

A Beginner's Guide to Discrete Mathematics

Elementary and Beyond

An Open Introduction

Discrete Mathematics with Applications Cengage Learning

This text has been designed as a complete introduction to discrete mathematics, primarily for computer science majors in either a one or two semester course. The

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

topics addressed are of genuine use in computer science, and are presented in a logically coherent fashion. The material has been organized and 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 way that it simplifies the

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

more complex ideas that follow.

Judith Gersting's Mathematical Structures for Computer Science has long been acclaimed for its clear presentation of essential concepts and its exceptional range of applications relevant to computer science majors. Now with this new edition, it is the first discrete mathematics textbook revised to meet the proposed new ACM/IEEE standards for the course. College students struggle with the switch from thinking of mathematics as

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

a calculation based
subject to a problem
solving based subject.
This book describes how
the introduction to proofs
course can be taught in a
way that gently introduces
students to this new way
of thinking. This
introduction utilizes
recent research in
neuroscience regarding how
the brain learns best.
Rather than jumping right
into proofs, students are
first taught how to change
their mindset about
learning, how to persevere
through difficult
problems, how to work

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

successfully in a group, and how to reflect on their learning. With these tools in place, students then learn logic and problem solving as a further foundation. Next various proof techniques such as direct proofs, proof by contraposition, proof by contradiction, and mathematical induction are introduced. These proof techniques are introduced using the context of number theory. The last chapter uses Calculus as a way for students to apply the proof techniques they have

File Type PDF Discrete Mathematics With Application Susanna Solution Manual learned.

Classroom Projects,
History Modules, and
Articles

A Transition to Advanced
Mathematics

Handbook of Discrete and
Combinatorial Mathematics

This book has two primary objectives: It teaches students fundamental concepts in discrete mathematics (from counting to basic cryptography to graph theory), and it teaches students proof-writing skills. With a wealth of learning aids and a clear presentation, the book teaches students not only how to write proofs, but how to think clearly and present cases logically beyond this course. Overall, this

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

book is an introduction to mathematics. In particular, it is an introduction to discrete mathematics. All of the material is directly applicable to computer science and engineering, but it is presented from a mathematician's perspective. While algorithms and analysis appear throughout, the emphasis is on mathematics. Students will learn that discrete mathematics is very 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 mathematics. Bond and Keane explicate the elements of logical, mathematical argument to elucidate the

**File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual**

meaning and importance of mathematical rigor. With definitions of concepts at their disposal, students learn the rules of logical inference, read and understand proofs of theorems, and write their own proofs all while becoming familiar with the grammar of mathematics and its style. In addition, they will develop an appreciation of the different methods of proof (contradiction, induction), the value of a proof, and the beauty of an elegant argument. The authors emphasize that mathematics is an ongoing, vibrant discipline with a long, fascinating history continually intersecting with territory still uncharted and questions still in need of answers. The authors

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

extensive background in teaching mathematics shines through in this balanced, explicit, and engaging text, designed as a primer for higher-level mathematics courses. They elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers. Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers' interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.

**File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual**

Susanna Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, FOURTH EDITION provides a clear introduction to discrete mathematics. Renowned for her lucid, accessible prose, Epp explains complex, abstract concepts with clarity and precision. This book presents not only the major themes of discrete mathematics, but also the reasoning that underlies mathematical thought. Students develop the ability to think abstractly as they study the ideas of logic and proof. While learning about such concepts as logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography, and combinatorics, students discover

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

that the ideas of discrete mathematics underlie and are essential to the science and technology of the computer age. Overall, Epp's emphasis on reasoning provides students with a strong foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This text offers a crucial primer on proofs and the language of mathematics. Brief and to the point, it lays out the fundamental ideas of abstract mathematics and proof techniques that students will need to master for other math courses. Campbell presents these concepts in plain

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

English, with a focus on basic terminology and a conversational tone that draws natural parallels between the language of mathematics and the language students communicate in every day. The discussion highlights how symbols and expressions are the building blocks of statements and arguments, the meanings they convey, and why they are meaningful to mathematicians. In-class activities provide opportunities to practice mathematical reasoning in a live setting, and an ample number of homework exercises are included for self-study. This text is appropriate for a course in Foundations of Advanced Mathematics taken by students who've had a semester of

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

calculus, and is designed to be accessible to students with a wide range of mathematical proficiency. It can also be used as a self-study reference, or as a supplement in other math courses where additional proofs practice is needed. Important

Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Best Writing on Mathematics
2012

Discrete Mathematics with
Applications, Metric Edition
Science Of Learning Mathematical
Proofs, The: An Introductory
Course

Discrete Mathematics With
Applications

The Student Solutions

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

Manual contains fully worked-out solutions to all of the exercises not completely answered in Appendix B, and is divisible by 3. The Study Guide also includes alternate explanations for some of the concepts and review questions for each chapter enabling students to gain additional practice and succeed in the course.

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

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

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 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" course for math majors. The course is usually taught with a large amount of student inquiry, and

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

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 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 there are many fine discrete math textbooks

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

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 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 discrete.openmathbooks.org

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

*A precise, relevant,
comprehensive approach to
mathematical concepts...*

*This volume is a
collection of articles
written by experienced
primary, secondary, and
collegiate educators. The
book explains why discrete
mathematics should be
taught in K-12 classrooms
and offers practical
guidance on how to do so.
In this book, teachers at
all levels will find a
great deal of valuable
material to help them
introduce discrete
mathematics in their
classrooms. One main*

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

article provides a comprehensive and detailed view of discrete mathematics for K-12. Another surveys the resources that are available for teachers. School and district curriculum leaders will find material that addresses how discrete mathematics can be introduced into their curricula. College faculty members will find ideas and topics that can be incorporated into a variety of courses. It features: classroom activities and an

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

annotated list of resources; authors who are directors of innovative programs and who are well known for their work; a description of discrete mathematics providing the opportunity for a fresh start for students who have been previously unsuccessful in mathematics; discussion on discrete mathematics as it is used to achieve the goals of the current effort to improve mathematics education; guidance on topics, resources and teaching; and a valuable guide for

*both pre-service and in-
service professional
development.*

*Resources for Teaching
Discrete Mathematics
Applied Discrete
Structures*

*A Graphical Approach to
Algebra and Trigonometry
Schaum's Outline of
Discrete Mathematics,
Revised Third Edition*

Known for its
accessible, precise
approach, Epp's DISCRETE
MATHEMATICS WITH
APPLICATIONS, 5th
Edition, introduces
discrete mathematics

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

with clarity and precision. Coverage emphasizes the major themes 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 addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that

ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Tough Test Questions?
Missed Lectures? Not
Enough Time? Fortunately

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

for you, there's
Schaum's Outlines. More
than 40 million students
have trusted Schaum's to
help them succeed in the
classroom and on exams.
Schaum's is the key to
faster learning and
higher grades in every
subject. Each Outline
presents all the
essential course
information in an easy-
to-follow, topic-by-
topic format. You also
get hundreds of
examples, solved
problems, and practice
exercises to test your

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

skills. This Schaum's
Outline gives you:
Practice problems with
full explanations that
reinforce knowledge
Coverage of the most up-
to-date developments in
your course field In-
depth review of
practices and
applications Fully
compatible with your
classroom text, Schaum's
highlights all the
important facts you need
to know. Use Schaum's to
shorten your study time-
and get your best test
scores! Schaum's

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

Outlines-Problem Solved.

A solutions manual designed to accompany the fourth edition of the text, Discrete mathematics with applications, by Susanna S. Epp. It contains complete solutions to every third exercise in the text that is not fully answered in the appendix of the text itself. Additional review material is also provided.

This is the eBook of the printed book and may not include any media,

website access codes, or print supplements that may come packaged with the bound book. A Graphical Approach to Algebra and Trigonometry illustrates how the graph of a function can be used to support the solutions of equations and inequalities involving the function. Beginning with linear functions in Chapter 1, the text uses a four-part process to analyze each type of function, starting first with the graph of the function,

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

then the equation, the associated inequality of that equation, and ending with applications. The text covers all of the topics typically caught in a college algebra course, but with an organization that fosters students' understanding of the interrelationships among graphs, equations, and inequalities. With the Fifth Edition, the text continues to evolve as it addresses the changing needs of today's students.

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

Included are additional components to build skills, address critical thinking, solve applications, and apply technology to support traditional algebraic solutions, while maintaining its unique table of contents and functions-based approach. A Graphical Approach to Algebra and Trigonometry continues to incorporate an open design, with helpful features and careful explanations of topics. Discrete Mathematics and

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual
Applications

**Discrete Mathematics
with Applications**

**Discrete Mathematics and
Applications, Second
Edition**

**Introduction to Advanced
Mathematics: A Guide to
Understanding Proofs**

Resources for Teaching Discrete Mathematics presents nineteen classroom tested projects complete with student handouts, solutions, and notes to the instructor. Topics range from a first day activity that motivates proofs to applications of discrete mathematics to chemistry, biology, and data storage. Other projects provide: supplementary material on classic topics such as the towers of Hanoi and

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

the Josephus problem, how to use a calculator to explore various course topics, how to employ Cuisenaire rods to examine the Fibonacci numbers and other sequences, and how you can use plastic pipes to create a geodesic dome. The book contains eleven history modules that allow students to explore topics in their original context. Sources range from eleventh century Chinese figures that prompted Leibniz to write on binary arithmetic, to a 1959 article on automata theory. Excerpts include: Pascal's "Treatise on the Arithmetical Triangle," Hamilton's "Account of the Icosian Game," and Cantor's (translated) "Contributions to the Founding of the Theory of Transfinite Numbers." Five articles complete the book. Three address extensions of standard discrete mathematics content: an exploration of historical counting

File Type PDF Discrete Mathematics With Application Susanna Solution Manual

problems with attention to discovering formulas, a discussion of how computers store graphs, and a survey connecting the principle of inclusion-exclusion to Möbius inversion. Finally, there are two articles on pedagogy specifically related to discrete mathematics courses: a summary of adapting a group discovery method to larger classes, and a discussion of using logic in encouraging students to construct proofs.

Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early-career undergraduate mathematics majors. The important ideas of discrete mathematics are included—logic, sets, proof writing, relations, counting, number theory, and graph theory—in a manner that promotes development of a mathematical mindset and prepares

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

students for further study. While the treatment is designed to prepare the student reader for the mathematics major, the book remains attractive and appealing to students of computer science and other problem-solving disciplines. The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics. The problems are appealing and vary widely in depth and difficulty. Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided. Several of the core topics, including counting, number theory, and graph theory, are visited twice: once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

perspective. Owen D. Byer and Deirdre L. Smeltzer are both Professors of Mathematics at Eastern Mennonite University. Kenneth L. Wantz is Professor of Mathematics at Regent University. Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject.

This book is intended for a one-semester course in discrete mathematics. Such a course is typically taken by mathematics, mathematics education, and computer science majors, usually in their sophomore year. Calculus is not a prerequisite to use this book. Part one focuses on how to write proofs, then moves on to topics in number theory, employing set theory in the process. Part two focuses on

File Type PDF Discrete
Mathematics With Application
Susanna Solution Manual

computations, combinatorics, graph theory, trees, and algorithms.

Collects essays on mathematics, from the mathematical aspects of origami and the mathematics of dating to the frequency and distribution of prime numbers and a ball in five dimensions.

Discrete Mathematics in the Schools
Mathematical Structures for Computer Science

Mathematics

Concrete Mathematics: A Foundation for Computer Science