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Books in Print

Supplement 1994

Discrete Mathematics
with Graph Theory

(Classic Version) Edgar
Goodaire 2017-03-20 This
title is part of the
Pearson Modern Classics
series. Pearson Modern
Classics are acclaimed
titles at a value price.
Please visit

[www.pearsonhighered.com/
math-classics-series](http://www.pearsonhighered.com/math-classics-series) for
a complete list of
titles. Far more "user
friendly" than the vast
majority of similar
books, this text is
truly written with the
"beginning" reader in
mind. The pace is tight,
the style is light, and
the text emphasizes
theorem proving
throughout. The authors
emphasize "Active
Reading," a skill vital
to success in learning

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mathematically (and
write clean, error-free
programs).

*Discrete Mathematics
with Applications* Thomas

Koshy 2004-01-19 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 computation. *
Covers all recommended
topics in a self-
contained,

comprehensive, and
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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, and properties, plus the chapter review exercises * Features interesting anecdotes and biographies of 60 mathematicians and computer scientists *

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Instructor's Manual available for adopters * Student Solutions Manual available separately for purchase (ISBN: 0124211828)

Book of Proof Richard H. Hammack 2016-01-01 This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.
Discrete Mathematics for Computer Science David Liben-Nowell 2017-09-05
via.ramtech.uri.edu on September 26, 2023 by Betty o Ferguson

Written exclusively with computer science students in mind, Discrete Mathematics for Computer Science provides a comprehensive treatment of standard course topics for the introductory discrete mathematics course with a strong emphasis on the relationship between the concepts and their application to computer science. The book has been crafted to enhance teaching and learning ease and includes a wide selection of exercises, detailed exploration problems, examples and problems inspired by wide-ranging applications of computer science and handy quick reference guides for key technical topics throughout. Discrete Mathematics for Computer Science provides a lucidly written introduction to discrete mathematics with

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learning, including over 450 examples, thorough chapter summaries, simple quizzes, and approximately 1600 homework exercises of widely varying difficulty. Each chapter begins with motivational content that relates the chapter topic to computer science practice and the book also includes over fifty "Computer Science Connections" which discuss applications to computer science such as Rotation Matrices; Game Trees, Logic, and Winning Tic-Tac(-Toe); Moore's Law; Secret Sharing; The Enigma Machine and the First Computer; Bayesian Modeling and Spam Filtering; and Quantum Computing.

Advanced Engineering Mathematics, Student Solutions Manual and Study Guide, Volume 1: Chapters 1 - 12 Herbert Kreyszig 2012

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Student Solutions Manual to accompany Advanced Engineering Mathematics, 10e. The tenth edition of this bestselling text includes examples in more detail and more applied exercises; both changes are aimed at making the material more relevant and accessible to readers. Kreyszig introduces engineers and computer scientists to advanced math topics as they relate to practical problems. It goes into the following topics at great depth differential equations, partial differential equations, Fourier analysis, vector analysis, complex analysis, and linear algebra/differential equations.

Discrete and Combinatorial

Mathematics Ralph P. Grimaldi 1993-10-01

Discrete Mathematics László Lovász 2006-05-10

Aimed at undergraduate mathematics and computer

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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 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.

Recommender Systems

Handbook Francesco Ricci

2015-11-17 This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In

addition to what is available from

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revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior.

Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

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Introduction to Algorithms, fourth edition Thomas H. Cormen
2022-04-05 A comprehensive update of the leading algorithms text, with new material on matchings in bipartite graphs, online algorithms, machine learning, and other topics. Some books on algorithms are rigorous but incomplete; others cover masses of material but lack rigor. Introduction to Algorithms uniquely combines rigor and comprehensiveness. It covers a broad range of algorithms in depth, yet makes their design and analysis accessible to all levels of readers.

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with self-contained chapters and algorithms in pseudocode. Since the publication of the first edition, Introduction to Algorithms has become the leading algorithms text in universities worldwide as well as the standard reference for professionals. This fourth edition has been updated throughout. New for the fourth edition New chapters on matchings in bipartite graphs, online algorithms, and machine learning New material on topics including solving recurrence equations, hash tables, potential functions, and suffix arrays 140 new exercises and 22 new problems Reader feedback–informed improvements to old problems Clearer, more personal, and gender-neutral writing style Color added to improve visual presentation Notes, bibliography, and more updated to reflect

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developments in the field Website with new supplementary material Warning: Avoid counterfeit copies of Introduction to Algorithms by buying only from reputable retailers. Counterfeit and pirated copies are incomplete and contain errors.

Discrete Mathematics

Richard Johnsonbaugh
1993 This best-selling book provides an accessible introduction to discrete mathematics through an algorithmic approach that focuses on problem-solving techniques. This edition has the techniques of proofs woven into the text as a running theme and each chapter has the problem-solving corner. The text provides complete coverage of: Logic and Proofs; Algorithms; Counting Methods and the Pigeonhole Principle; Recurrence Relations;

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Graph Theory; Trees; Network Models; Boolean Algebra and Combinatorial Circuits; Automata, Grammars, and Languages; Computational Geometry. For individuals interested in mastering introductory discrete mathematics.

Discrete Mathematics
Oscar Levin 2018-12-31
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 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
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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 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 available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used from
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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

Discrete Mathematics with Applications

Susanna S. Epp
2018-12-17 Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as

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The reasoning that Johnsonbaugh 7th Edition Pdf Pdf upload Betty o Ferguson

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.

Discrete Mathematical Structures for Computer Science Bernard Kolman 1987 This text has been designed as a complete from vla.ramtech.uri.edu on September 26, 2023 by Betty o Ferguson

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 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 more complex ideas that follow.

Algorithms Richard Johnsonbaugh 2004 For graduate and upper-level undergraduate courses in algorithms, this text

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that emphasizes design techniques. Included are over 1000 exercises, with answers to one third of them at the back of the book.

Schaum's Outline of Discrete Mathematics, Revised Third Edition

Seymour Lipschutz

2009-05-01 Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately 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 skills. This **Schaum's** from

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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
Outlines-Problem Solved.

**Discrete Mathematics and
Applications** Kevin

Ferland 2017-09-19

Discrete Mathematics and
Applications, Second
Edition 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.

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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 computations,
combinatorics, graph
theory, trees, and
algorithms. Emphasizes
proofs, which will
appeal to a subset of
this course market Links
examples to exercise
sets Offers edition that
has been heavily
reviewed and developed
Focuses on graph theory
Covers trees and
algorithms

**An Introduction to
Formal Languages and
Automata** Peter Linz 1997

An Introduction to
Formal Languages &
Automata provides an
excellent presentation
of the material that is
essential to an
introductory theory of
computation course. The
text was designed to
familiarize students

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with the foundations & principles of computer science & to strengthen the students' ability to carry out formal & rigorous mathematical argument. Employing a problem-solving approach, the text provides students insight into the course material by stressing intuitive motivation & illustration of ideas through straightforward explanations & solid mathematical proofs. By emphasizing learning through problem solving, students learn the material primarily through problem-type illustrative examples that show the motivation behind the concepts, as well as their connection to the theorems & definitions.

Discrete Mathematics

Norman L. Biggs

2002-12-19 Discrete mathematics is a

compulsory subject for undergraduate computer

science.

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scientists. This new edition includes new chapters on statements and proof, logical framework, natural numbers and the integers and updated exercises from the previous edition.

Discrete Mathematics (Classic Version)

John Dossey 2017-03-07 This

title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit

www.pearsonhighered.com/math-classics-series for a complete list of titles. An ever-

increasing percentage of mathematic applications involve discrete rather than continuous models. Driving this trend is the integration of the computer into virtually every aspect of modern society. Intended for a one-semester

introductory course, the strong algorithmic

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emphasis of Discrete Mathematics is independent of a specific programming language, allowing students to concentrate on foundational problem-solving and analytical skills. Instructors get the topical breadth and organizational flexibility to tailor the course to the level and interests of their students.

Introduction to the Theory of Computation

Michael Sipser 2006
"Intended as an upper-level undergraduate or introductory graduate text in computer science theory," this book lucidly covers the key concepts and theorems of the theory of computation. The presentation is remarkably clear; for example, the "proof idea," which offers the reader an intuitive feel for how the proof was

conducted, accompanies Johnsonbaugh 7th Edition Pdf Pdf upload Betty o Ferguson

many of the theorems and a proof. Introduction to the Theory of Computation covers the usual topics for this type of text plus it features a solid section on complexity theory-- including an entire chapter on space complexity. The final chapter introduces more advanced topics, such as the discussion of complexity classes associated with probabilistic algorithms.

Forthcoming Books Rose Arny 1996-06

Discrete Mathematics and Its Applications

Kenneth H. Rosen 2003 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

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mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, and enhanced problem-solving skills through modeling. Its intent is to demonstrate the 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,

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site supplements the subject matter in meaningful ways, offering additional material for students and instructors. Discrete math is 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. *Algorithmic Puzzles* Anany Levitin 2011-10-14 Algorithmic puzzles are puzzles involving well-defined procedures for solving problems. This book will provide an enjoyable and accessible introduction

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algorithmic puzzles that will develop the reader's algorithmic thinking. The first part of this book is a tutorial on algorithm design strategies and analysis techniques. Algorithm design strategies – exhaustive search, backtracking, divide-and-conquer and a few others – are general approaches to designing step-by-step instructions for solving problems. Analysis techniques are methods for investigating such procedures to answer questions about the ultimate result of the procedure or how many steps are executed before the procedure stops. The discussion is at an elementary level, with puzzle examples, and requires neither programming nor mathematics beyond a secondary school level. Thus, the tutorial

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entertaining introduction to main ideas in high-level algorithmic problem solving. The second and main part of the book contains 150 puzzles, from centuries-old classics to newcomers often asked during job interviews at computing, engineering, and financial companies. The puzzles are divided into three groups by their difficulty levels. The first fifty puzzles in the Easier Puzzles section require only middle school mathematics. The sixty puzzle of average difficulty and forty harder puzzles require just high school mathematics plus a few topics such as binary numbers and simple recurrences, which are reviewed in the tutorial. All the puzzles are provided with hints, detailed solutions, and

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comments. The comments deal with the puzzle origins and design or analysis techniques used in the solution. The book should be of interest to puzzle lovers, students and teachers of algorithm courses, and persons expecting to be given puzzles during job interviews.

Concrete Mathematics: A Foundation for Computer Science Ronald L. Graham 1994

Student Solutions Guide for Discrete Mathematics and Its Applications

Kenneth H. Rosen 1995
This text provides a balanced survey of major sub-fields within discrete mathematics. It demonstrates the utility of discrete mathematics in the solutions of real-world problems in diverse areas such as zoology, linguistics and business. Over 200 new problems have been added

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Discrete Mathematics and Its Applications

Kenneth H. Rosen 1999
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 overall comprehensive nature of the topic coverage.

Fundamental Approach To Discrete Mathematics

D.P. Acharjya 2005

Salient Features *

Mathematical Logic,

Fundamental Concepts,

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Proofs And Mathematical Induction (Chapter 1) *
Set Theory, Fundamental Concepts, Theorems, Proofs, Venn Diagrams, Product Of Sets, Application Of Set Theory And Fundamental Products (Chapter 2) *
An Introduction To Binary Relations And Concepts, Graphs, Arrow Diagrams, Relation Matrix, Composition Of Relations, Types Of Relation, Partial Order Relations, Total Order Relation, Closure Of Relations, Poset, Equivalence Classes And Partitions. (Chapter 3) *
An Introduction To Functions And Basic Concepts, Graphs, Composition Of Functions, Floor And Ceiling Function, Characteristic Function, Remainder Function, Signum Function And Introduction To Hash Function. (Chapter 4) *

The Algebraic Structure
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And Ring Theory. Group Theory Includes Group, Subgroups, Cyclic Group, Cosets, Homomorphism, Introduction To Codes And Group Codes And Error Correction For Block Code. The Ring Theory Includes General Definition, Fundamental Concepts, Integral Domain, Division Ring, Subring, Homomorphism, An Isomorphism And Pigeonhole Principle (Chapters 5, 6 And 7) *
A Treatment Of Boolean Algebras That Emphasizes The Relation Of Boolean Algebras To Combinatorial Circuits. (Chapter 8) *
An Introduction To Lattices And Basic Concepts (Chapter 9) *
A Brief Introduction To Graph Theory Is Discussed. Elements Of Graph Theory Are Indispensable In Almost All Computer Science Areas. Examples Are Given Of Its Use In Such Areas As Minimum Spanning Tree, Shortest

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Path Problems
(Dijkstra'S Algorithm
And Floyd-Warshall
Algorithm) And Traveling
Salesman Problem. The
Computer Representation
And Manipulation Of
Graphs Are Also
Discussed So That
Certain Important
Algorithms Can Be
Included(Chapters 10 And
11) * A Strong Emphasis
Is Given On
Understanding The
Theorems And Its
Applications * Numbers
Of Illustrations Are
Used Throughout The Book
For Explaining The
Concepts And Its
Applications. * Figures
And Tables Are Used To
Illustrate Concepts, To
Elucidate Proofs And To
Motivate The Material.
The Captions Of These
Figures Provide
Additional Explanation.
Besides This, A Number
Of Exercises Are Given
For Practice

Advanced Functions 12

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Walter R. Erdman 2008-08-15
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Extremal Combinatorics
Stasys Jukna 2013-03-09
This is a concise, up-
to-date introduction to
extremal combinatorics
for non-specialists.
Strong emphasis is made
on theorems with
particularly elegant and
informative proofs which
may be called the gems
of the theory. A wide
spectrum of the most
powerful combinatorial
tools is presented,
including methods of
extremal set theory, the
linear algebra method,
the probabilistic method
and fragments of Ramsey
theory. A thorough
discussion of recent
applications to computer
science illustrates the
inherent usefulness of
these methods.

**Discrete Mathematics and
Its Applications** Kenneth
H. Rosen 2018-05 A
precise, relevant,
comprehensive approach
to mathematical
concepts...

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(L-R) -- v. 4. (S-Z) --
v. 5. Titles (A-D) -- v.
6. Titles (E-K) -- v. 7.
Titles (L-Q) -- v. 8.
Titles (R-Z) -- v. 9.
Out of print, out of
stock indefinitely -- v.
10. -- Publishers.
Fundamentals of Discrete
Math for Computer

Science Tom Jenkyns
2012-10-16 This textbook
provides an engaging and
motivational
introduction to
traditional topics in
discrete mathematics, in
a manner specifically
designed to appeal to
computer science
students. The text
empowers students to
think critically, to be
effective problem
solvers, to integrate
theory and practice, and
to recognize the
importance of
abstraction. Clearly

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interactive in nature,
the book presents
detailed walkthroughs of
several algorithms,
stimulating a
conversation with the
reader through informal
commentary and
provocative questions.
Features: no university-
level background in
mathematics required;
ideally structured for
classroom-use and self-
study, with modular
chapters following ACM
curriculum
recommendations;
describes mathematical
processes in an
algorithmic manner;
contains examples and
exercises throughout the
text, and highlights the
most important concepts
in each section; selects
examples that
demonstrate a practical
use for the concept in
question.

Digital Communications

Bernard Sklar 2016-12-23
The clear, easy-to-
understand in

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to digital communications. Completely updated coverage of today's most critical technologies. Step-by-step implementation coverage. Trellis-coded modulation, fading channels, Reed-Solomon codes, encryption, and more. Exclusive coverage of maximizing performance with advanced "turbo codes". "This is a remarkably comprehensive treatment of the field, covering in considerable detail modulation, coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability theory or as a valuable reference for the practicing communication system engineer. For both

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treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group Master every key digital communications technology, concept, and technique. Digital Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the heart of today's wireless and Internet revolutions, providing a unified structure and context for understanding them -- all without sacrificing mathematical precision. Sklar begins by introducing the fundamentals of signals, spectra, formatting, and baseband transmission. Next, he presents practical coverage of virtually every

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contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance. Coverage includes: Signals and processing steps: from information source through transmitter, channel, receiver, and information sink Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth expenditure Trellis-coded modulation and Reed-Solomon codes: what's behind the math Synchronization and spread spectrum solutions Fading channels: causes, effects, and techniques for withstanding fading The first complete how-to guide to turbo codes: squeezing maximum performance out of digital connections Implementing encryption

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Sets, Logic and Maths for Computing

David Makinson 2012-02-27 This easy-to-follow textbook introduces the

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mathematical language, knowledge and problem-solving skills that undergraduates need to study computing. The language is in part qualitative, with concepts such as set, relation, function and recursion/induction; but it is also partly quantitative, with principles of counting and finite probability. Entwined with both are the fundamental notions of logic and their use for representation and proof. Features: teaches finite math as a language for thinking, as much as knowledge and skills to be acquired; uses an intuitive approach with a focus on examples for all general concepts; brings out the interplay between the qualitative and the quantitative in all areas covered, particularly in the treatment of recursion

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carefully the abstract and concrete, principles and proofs, specific facts and general perspectives; includes highlight boxes that raise common queries and clear confusions; provides numerous exercises, with selected solutions.

Discrete Mathematics and Combinatorics T.

Sengadir 2009-09

Discrete Mathematics and Combinatorics provides a concise and practical introduction to the core components of discrete mathematics, featuring a balanced mix of basic theories and applications. The book covers both fundamental concepts such as sets and logic, as well as advanced topics such as graph theory and Turing machines. The example-driven approach will help readers in understanding and applying the concepts. Other pedagogical

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- illustrations, practice questions, and suggested reading - facilitate learning and mastering the subject." - Cover

What is Mathematics?

Herbert Robbins Richard Courant (Ian Stewart) 1996 A discussion of fundamental mathematical principles from algebra to elementary calculus designed to promote constructive mathematical reasoning.

Student Solutions Manual with Study Guide for Epp's Discrete Mathematics with Applications

Susanna S. Epp 2019-07-10 The Student Solutions 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

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chapter enabling students to gain additional practice and succeed in the course.

Artificial Intelligence in the 21st Century

Stephen Lucci 2015-12-10

This new edition provides a comprehensive, colorful, up-to-date, and accessible presentation of AI without sacrificing theoretical foundations. It includes numerous examples, applications, full color images, and human interest boxes to enhance student interest. New chapters on robotics and machine learning are now included. Advanced topics cover neural nets, genetic algorithms, natural language processing, planning, and complex board games. A companion DVD is provided with resources, applications, and figures from the book. Numerous

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instructors' resources are available upon adoption. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com.

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• Introduces important AI concepts e.g., robotics, use in video games, neural nets, machine learning, and mathematics through practical

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applications • Features over 300 figures and color images with worked problems detailing AI methods and solutions to selected exercises • Includes DVD with resources, simulations, and figures from the book • Provides numerous instructors' resources, including: solutions to exercises, Microsoft PP slides, etc.

Philosophy through Film

Amy Karofsky 2014-07-11

Many of the classic questions of philosophy have been raised, illuminated, and addressed in celluloid. In this Third Edition of *Philosophy through Film*, Mary M. Litch teams up with a new co-author, Amy Karofsky, to show readers how to watch films with a sharp eye for their philosophical content. Together, the authors help students become familiar with key topics in all of the major areas in

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philosophy and master the techniques of philosophical argumentation. The perfect size and scope for a first course in philosophy, the book assumes no prior knowledge of philosophy. It is an excellent teaching resource and learning tool, introducing students to key topics and figures in philosophy through thematic chapters, each of which is linked to one or more "focus films" that illustrate a philosophical problem or topic. Revised and expanded, the Third Edition features: A completely revised chapter on "Relativism," now re-titled "Truth" with coverage of the correspondence theory, the pragmatist theory, and the coherence theory. The addition of four new focus films: Inception, Moon, Gone

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Revisions to the General Introduction that include a discussion of critical reasoning. Revisions to the primary readings to better meet the needs of instructors and students, including the addition of three new primary readings: excerpts from Bertrand Russell's The Problems of Philosophy, from William James' Pragmatism: A New Way for Some Old Ways of Thinking, and from J. L. Mackie's "Evil and Omnipotence". Updates and expansion to the companion website, including a much expanded list of films relevant to the various subfields of philosophy. Films examined in depth include: Hilary and Jackie The Matrix Inception Memento Moon I, Robot Minority Report Crimes and Misdemeanors Gone Baby Gone Antz Equilibrium The Seventh Seal God on Trial

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