

Undergraduate Topics in Computer Science

Gerard O'Regan

Mathematics in Computing

An Accessible Guide to Historical,
Foundational and Application Contexts

Second Edition



 Springer

Mathematics In Computing

Andy Abraham



Mathematics In Computing:

Discrete Mathematics for Computing Andrew Vince, Claire Morris, 1990 This text is suitable for an introductory course in the mathematics related to computing generally referred to as discrete mathematics Topics covered include set theory logic and methods of proof graphs digraphs and trees number systems and matrix algebra and an introduction to binary codes Throughout the book the interrelations between the mathematical structures and their representations is stressed and use is made of action diagrams as a language independent means of presenting algorithmic processes Readers who work through this text will acquire the mathematical knowledge and approach to problem solving required by introductory computing courses and a sound bases from which to pursue the subject further

Mathematics in Computing Gerard O'Regan, 2020-01-10 This illuminating textbook provides a concise review of the core concepts in mathematics essential to computer scientists Emphasis is placed on the practical computing applications enabled by seemingly abstract mathematical ideas presented within their historical context The text spans a broad selection of key topics ranging from the use of finite field theory to correct code and the role of number theory in cryptography to the value of graph theory when modelling networks and the importance of formal methods for safety critical systems This fully updated new edition has been expanded with a more comprehensive treatment of algorithms logic automata theory model checking software reliability and dependability algebra sequences and series and mathematical induction Topics and features includes numerous pedagogical features such as chapter opening key topics chapter introductions and summaries review questions and a glossary describes the historical contributions of such prominent figures as Leibniz Babbage Boole and von Neumann introduces the fundamental mathematical concepts of sets relations and functions along with the basics of number theory algebra algorithms and matrices explores arithmetic and geometric sequences and series mathematical induction and recursion graph theory computability and decidability and automata theory reviews the core issues of coding theory language theory software engineering and software reliability as well as formal methods and model checking covers key topics on logic from ancient Greek contributions to modern applications in AI and discusses the nature of mathematical proof and theorem proving presents a short introduction to probability and statistics complex numbers and quaternions and calculus This engaging and easy to understand book will appeal to students of computer science wishing for an overview of the mathematics used in computing and to mathematicians curious about how their subject is applied in the field of computer science The book will also capture the interest of the motivated general reader

Sets, Logic and Maths for Computing David Makinson, 2012-02-29 This easy to follow textbook introduces the 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 and induction balances 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

Mathematics in Computing Open University. Mathematics in Computing Course Team, McGraw-Hill Education, Open University. Faculty of Mathematics, Open University. Mathematics Second Level Course Team, 1989-01-01

An Introduction to Mathematics for Computing and IT Practitioners Andy

Abraham, 2015-09-04 There are a number of topics within mathematics which have a direct relevance to computing and IT Some of these topics form the basis of how a computer processes data some are used at a higher level to enable a program to perform a required function and others are algorithmic and can be easily implemented within a computer program This book attempts to bring together many of these mathematical concepts and present them in a way that is relevant to those studying ICT and computing qualifications and to those who would like to start to explore this subject for themselves This book not only demonstrates how to perform the relevant calculations but puts the topics into the context of computing Explanations include simple diagrams tables of data worked examples and questions with worked answers to allow the reader to check their understanding of a topic Some of the explanations include the use of algorithms and flowcharts as well as coded examples using JavaScript Additionally throughout this book there are examples to illustrate how the mathematical concepts are used within computing and IT Please note that this book is purely an introduction to this subject and many of the concepts are described in their simplest form The reader may then wish to go and explore a specific topic in more depth The following is a list of the topics which are covered by the book Algorithms Steps and Flowcharts Matrices Operations Transformations Simultaneous Equations Maps and Graphs Sequences and Series Arithmetic Geometric Recursive Algorithms Fibonacci Sequence Golden Ratio Searching and Sorting Algorithms Bubble Sort Quicksort and Binary Search Probability Tree Diagrams Space Diagrams Venn Diagrams and Simulation Number Systems Binary Octal Hexadecimal Conversions between number systems Operations on Binary Gray Codes Boolean Algebra Logical Operators Venn Diagrams Boolean Expressions and Logic Gates Character Codes ASCII Unicode UTF 8 Hamming Codes MIME Base 64 IP Addresses IPv4 Network and Host IDs CIDR Notation and Subnetting

Proceedings of the Ninth International Conference on Mathematics and Computing Debasis Giri, Dieter Gollmann, S. Ponnusamy, Sakurai Kouichi, Predrag S. Stanimirović, J. K. Sahoo, 2023-07-31 This book features selected papers from the 9th International Conference on Mathematics and Computing ICMC 2023 organized at BITS Pilani K K Birla Goa Campus India during 6-8 January 2023 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry in mathematics statistics cryptography network security cybersecurity machine learning data

analytics and blockchain technology in computer science and information technology *Mathematics of Discrete Structures for Computer Science* Gordon J. Pace, 2012-09-13 Mathematics plays a key role in computer science some researchers would consider computers as nothing but the physical embodiment of mathematical systems And whether you are designing a digital circuit a computer program or a new programming language you need mathematics to be able to reason about the design its correctness robustness and dependability This book covers the foundational mathematics necessary for courses in computer science The common approach to presenting mathematical concepts and operators is to define them in terms of properties they satisfy and then based on these definitions develop ways of computing the result of applying the operators and prove them correct This book is mainly written for computer science students so here the author takes a different approach he starts by defining ways of calculating the results of applying the operators and then proves that they satisfy various properties After justifying his underlying approach the author offers detailed chapters covering propositional logic predicate calculus sets relations discrete structures structured types numbers and reasoning about programs The book contains chapter and section summaries detailed proofs and many end of section exercises key to the learning process The book is suitable for undergraduate and graduate students and although the treatment focuses on areas with frequent applications in computer science the book is also suitable for students of mathematics and engineering *Numerical Analysis* David Ronald Kincaid, Elliott Ward Cheney, 2009 This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing The subject of numerical analysis is treated from a mathematical point of view offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs In an engaging and informal style the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs Algorithms are presented in pseudocode so that students can immediately write computer programs in standard languages or use interactive mathematical software packages This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level Mathematics for Computing G. P. McKeown, V. J. Rayward-Smith, 1982 Mathematics for Computing C. A. Whitehead, 1992-01-01

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Mathematics In Computing**

In a global inundated with screens and the cacophony of immediate interaction, the profound power and mental resonance of verbal art frequently fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. Yet, situated within the lyrical pages of **Mathematics In Computing**, a fascinating perform of fictional splendor that impulses with organic emotions, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, this enchanting opus courses readers on a psychological odyssey, softly revealing the latent potential and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect their fascinating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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