Gerard O'Regan

Mathematics in Computing

An Accessible Guide to Historical, Foundational and Application Contexts

Second Edition

UTiCS

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Mathematics In Computing

Andrew Vince,Claire Morris

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   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 for Computer Students** Rex Wilton,1995-10 Mathematics for Computer Students is a new text which takes a fresh approach to mathematics as it relates to good computing practice The book is a new addition to the popular Threshold series which have been widely adopted on business and computing courses throughout colleges of further education worldwide The book approaches the subject by encouraging students to understand the relationship between mathematics and computing so that they can select appropriate mathematical processes rather than seeing the former only as an assortment of disconnected practices To help the student to see familiar ground between the two subjects the author considers the practical applications of mathematics for computing before approaching the formal mathematics He considers step by step the following The skills of creating mathematical models numerical and logical The existing processes for manipulating those models The special demands imposed by the computer And throughout he considers how accuracy can be safeguarded and the control of the processing The text contains exercises both within the text and at the end of each chapter   **Understand Mathematics, Understand Computing** Arnold L. Rosenberg,Denis Trystram,2020-12-05 In this book the authors aim to endow the reader with an operational conceptual and methodological understanding of the discrete mathematics that can be used to study understand and perform computing They want the reader to understand the elements of computing rather than just know them The basic topics are presented in a way that encourages readers to develop their personal way of thinking about mathematics Many topics are developed at several levels in a single voice with sample applications from within the world of computing Extensive historical and cultural asides emphasize the human side of mathematics and mathematicians By means of lessons and exercises on doing mathematics the book prepares interested readers to develop new concepts and invent new techniques and technologies that will enhance all aspects of computing The book will be of value to students scientists and engineers engaged in the design and use of computing systems and to scholars and practitioners beyond these technical fields who

want to learn and apply novel computational ideas   *Mathematics for Computing* C. A. Whitehead,1992-01-01

Mathematics for Computing Robert Callan,1998 This book provides an approachable introduction to mathematical concepts explaining their importance and how they fit into the study of computing It is written for students who are taking a first unit in Computing Mathematics as part of a Computing Degree or HND Relating theory to practice helps demonstrate difficult concepts to students The author therefore concludes most topics with a short discussion of some areas of application to aid comprehension Self test questions are included in each chapter to allow the reader to review a topic and check their understanding before progressing This book provides an approachable introduction to mathematical concepts explaining their importance and how they fit into the study of computing It is written for students who are taking a first unit in Computing Mathematics as part of a Computing Degree or HND Relating theory to practice helps demonstrate difficult concepts to students The author therefore concludes most topics with a short discussion of some areas of application to aid comprehension Self test questions are included in each chapter to allow the reader to review a topic and check their understanding before progressing   Mathematics for Computing G. P. McKeown,V. J. Rayward-Smith,1982   Personal Mathematics and Computing Frank Wattenberg,1991-01-01 Computers can be effective tools for participating in the affairs of the world They can also be used by the experts to erect barriers to participation This book is a self contained tutorial that can assist any reader with a background in high school mathematics in learning how to apply personal computing to enhance his or her understanding of modern quantitative methods in such areas as politics and economics in environment and ecology or in probability and statistics The first part briefly introduces programming in True BASIC and includes eight programming projects that teach by example These illustrate a variety of interesting applications and methods of computer based quantitative reasoning in lotteries and property taxes in the law of supply and demand and the laws of chance ESP dice rolling coin flipping test taking and in the use of peremptory challenges in jury selection The remainder of the book applies mathematics and computing to real problems Here the emphasis is on the art of expressing problems in ways that are amenable to computer analysis with assignments for writing a number of computer programs for a wide variety of applications in probability and statistics a statistical comparison of two popular beers with the aid of a random number generator a comparison of two roulette strategies a statistical analysis of polling results the Bell Shaped Curve and an analysis of a program aimed at reducing recidivism in economic modeling changing prices inflation mathematical tools for decision making game theory in optics Fermat s principle reflection and refraction light caustics funhouse mirrors and an optical paradox in Massachusetts local aid distribution and in population models and ecology Frank Wattenberg is Professor of Mathematics at the University of Massachusetts Amherst   *Modelling Computing Systems* Faron Moller,Georg Struth,2013-07-24 This engaging text presents the fundamental mathematics and modelling techniques for computing systems in a novel and light hearted way which can be easily followed by students at the very beginning of their university

education Key concepts are taught through a large collection of challenging yet fun mathematical games and logical puzzles that require no prior knowledge about computers The text begins with intuition and examples as a basis from which precise concepts are then developed demonstrating how by working within the confines of a precise structured method the occurrence of errors in the system can be drastically reduced Features demonstrates how game theory provides a paradigm for an intuitive understanding of the nature of computation contains more than 400 exercises throughout the text with detailed solutions to half of these presented at the end of the book together with numerous theorems definitions and examples describes a modelling approach based on state transition systems The Science of Computing Matti Tedre,2014-12-03 The identity of computing has been fiercely debated throughout its short history Why is it still so hard to define computing as an academic discipline Is computing a scientific mathematical or engineering discipline By describing the mathematical engineering and scientific traditions of computing The Science of Computing Shaping a Discipli

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 Statistical Computing Kennedy,1980-03-01 This book provides an introduction to statistical computing and a critical balanced presentation of the algorithms and computational methods used in software systems discussing techniques for implementing algorithms in a computer It is intended for graduate students in statistics **Maths for Computing and Information Technology** Frank Giannasi,Robert Low,1995-01 The Essential Maths for Students series provides the fundamental mathematical and statistical techniques required by students entering Higher Education in a wide range of courses Reflecting the needs of both student and lecturer each text assumes little previous knowledge and is designed to raise the reader s proficiency to the level required by today s courses Maths for Computing and Information

Technology provides a solid introductory grounding in the maths required for modules or courses in computer science and information technology Through worked examples highlighted key points and self assessment questions the book explains essential mathematical ideas and applies them to the I T field Topics covered include propositional and predicate calculus matrices sets mathematical proofs probability co ordinate geometry and finite state automata **Introduction to the Mathematics of Computer Graphics** Nathan Carter,2016-12-31 This text by an award winning Author was designed to accompany his first year seminar in the mathematics of computer graphics Readers learn the mathematics behind the computational aspects of space shape transformation color rendering animation and modeling The software required is freely available on the Internet for Mac Windows and Linux The text answers questions such as these How do artists build up realistic shapes from geometric primitives What computations is my computer doing when it generates a realistic image of my 3D scene What mathematical tools can I use to animate an object through space Why do movies always look more realistic than video games Containing the mathematics and computing needed for making their own 3D computer generated images and animations the text and the course it supports culminates in a project in which students create a short animated movie using free software Algebra and trigonometry are prerequisites calculus is not though it helps Programming is not required Includes optional advanced exercises for students with strong backgrounds in math or computer science Instructors interested in exposing their liberal arts students to the beautiful mathematics behind computer graphics will find a rich resource in this text **Mathematical Principles for Scientific Computing and Visualization** Gerald Farin,Dianne Hansford,2008-10-21 This non traditional introduction to the mathematics of scientific computation describes the principles behind the major methods from statistics applied mathematics scientific visualization and elsewhere in a way that is accessible to a large part of the scientific community Introductory material includes computational basics a review of coordinate systems an introduction to facets planes and triangle meshes and an introduction to computer graphics The scientific computing part of the book covers topics in numerical linear algebra basics solving linear system eigen problems SVD and PCA and numerical calculus basics data fitting dynamic processes root finding and multivariate functions The visualization component of the book is separated into three parts empirical data scalar values over 2D data and volumes Computers and Mathematics Erich Kaltofen,Stephen M Watt,1989-06-06 Numerical Mathematics and Computing Elliott Ward Cheney,David Ronald Kincaid,1999 Acquainting the reader with the modern computer s potential for solving the numerical problems that arise in their careers this text also provides them with an opportunity to hone their skills in programming and problem solving **Geometric Computing Science** Robert Hermann,1991

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