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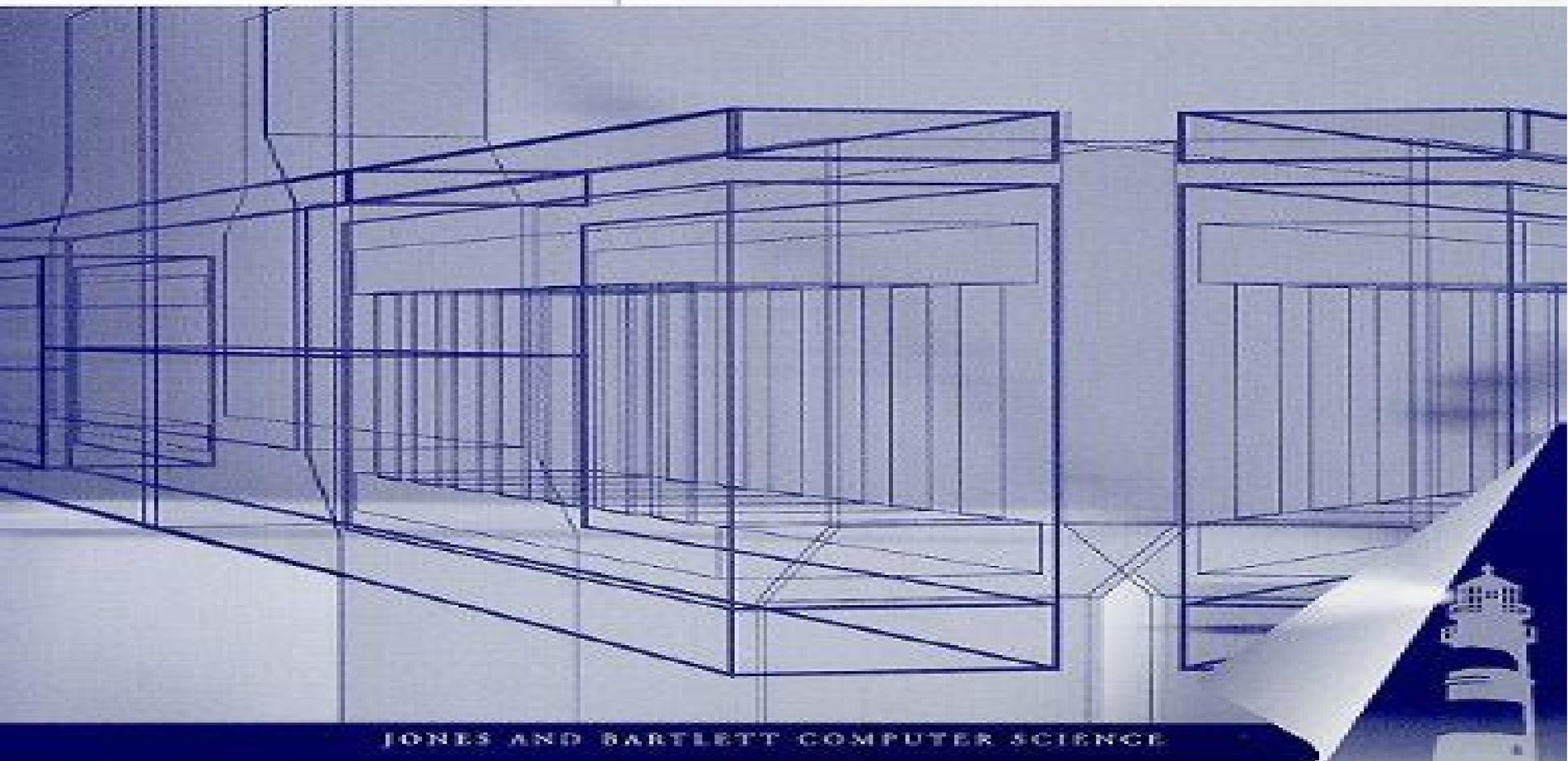
Discrete Structures, Logic, and Computability

JAMES L. HEIN

Ssg Discrete Struct Logic Compu

Winfried Karl Grassmann,Jean-Paul Tremblay

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Computer Simulated Plant Design for Waste Minimization/Pollution Prevention Stan Bumble,2020-02-10 Full of examples based on case studies from a variety of industries Computer Simulated Plant Design for Waste Minimization Pollution Prevention discusses preventing pollution and minimizing waste using computer simulation programs The author examines the computer technologies used in the field including the design and analysis of computer aided flow sheets With this book readers will understand how to use computer technology to design plants that generate little or no pollution and how to use information generated by computer simulations for technical data in proposals and presentations and as the basis for making policy decisions   Scientific and Technical Aerospace Reports ,1995   **International Research Centers Directory** ,2009   *Discrete Structures, Logic, and Computability* James L. Hein,2001 Discrete Structure Logic and Computability introduces the beginning computer science student to some of the fundamental ideas and techniques used by computer scientists today focusing on discrete structures logic and computability The emphasis is on the computational aspects so that the reader can see how the concepts are actually used Because of logic s fundamental importance to computer science the topic is examined extensively in three phases that cover informal logic the technique of inductive proof and formal logic and its applications to computer science   **Discrete Structures, Logic, and Computability** James L. Hein,2009-02-25   *Electrical & Electronics Abstracts* ,1997   **Discrete Structures, Logic, and Computability** James L. Hein,2015-12-11 Following the recent updates to the 2013 ACM IEEE Computer Science curricula Discrete Structures Logic and Computability Fourth Edition has been designed for the discrete math course that covers one to two semesters Dr Hein presents material in a spiral medthod of learning introducing basic information about a topic allowing the students to work on the problem and revisit the topic as new information and skills are established Written for prospective computer scientist computer engineers or applied mathematicians who want to learn about the ideas that inspire computer science this edition contains an extensive coverage of logic setting it apart from similar books available in the field of Computer Science

Discrete Structures, Logic, and Computability, 3/e Hein,2010-07 Written for the prospective computer scientist computer engineer or applied mathematician Discrete Structures Logic and Computability Third Edition provides elementary introductions to those ideas and techniques that are necessary to understand and practice the art and science of computing The text contains all the topics for discrete structures highlighted in the reports put forth by the IEEE ACM Joint Task Force on Computing Curricula for both computer science and computer engineering programs The author supports a spiral method of learning by introducing the basics of a given topic and then revisiting the topic whenever new skills or knowledge about the topic are needed to solve problems This approach allows students to master key material and maximizes their problem solving ability   **Instruc.Man. Discrete Struct.** Hein,1994-12-01   *Mathematics of Discrete Structures for Computer Science* Gordon J. Pace,2012-07-09 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 **Applied Discrete Structures for Computer Science** Alan Doerr,Kenneth Levasseur,1989 *Discrete Mathematics* James L. Hein,2003 **Discrete Mathematics Using a Computer** John O'Donnell,Cordelia Hall,Rex Page,2007-01-04 Computer science abounds with applications of discrete mathematics yet s dents of computer science often study discrete mathematics in the context of purely mathematical applications They have to gure out for themselves how to apply the ideas of discrete mathematics to computing problems It is not easy Most students fail to experience broad success in this enterprise which is not surprising since many of the most important advances in science and engineeringhavebeen precisely applicationsofmathematicstospeci cscience and engineering problems Tobesure mostdiscretemathtextbooksincorporatesomeaspectsapplying discrete math to computing but it usually takes the form of asking students to write programs to compute the number of three ball combinations there are in a set of ten balls or at best to implement a graph algorithm Few texts ask students to use mathematical logic to analyze properties of digital circuits or computer programs or to apply the set theoretic model of functions to understand higher order operations A major aim of this text is to integrate tightly the study of discrete mathematics with the study of central problems of computer science *Logic and Discrete Mathematics* Winfried Karl Grassmann,Jean-Paul Tremblay,1996 This book covers all the traditional topics of discrete mathematics logic sets relations functions and graphs and reflects recent trends in computer science Shows how to use discrete mathematics and logic for specifying new computer applications and how to reason about programs in a systematic way Describes Prolog a programming language based on logic and a section on Miranda language bad on functions Features numerous examples which relate the mathematical concepts to problems in computer science **Discrete Mathematical Structures** B. V. Senthil Kumar,Hemen Dutta,2019-07-08 This book contains fundamental concepts on discrete mathematical structures in an

easy to understand style so that the reader can grasp the contents and explanation easily The concepts of discrete mathematical structures have application to computer science engineering and information technology including in coding techniques switching circuits pointers and linked allocation error corrections as well as in data networking Chemistry Biology and many other scientific areas The book is for undergraduate and graduate levels learners and educators associated with various courses and progammes in Mathematics Computer Science Engineering and Information Technology The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities Readers will find solved examples and end of chapter exercises to enhance reader comprehension Features Offers comprehensive coverage of basic ideas of Logic Mathematical Induction Graph Theory Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures **Discrete Mathematical Structures** G. Shanker Rao,2007-12-31 About the Book This text can be used by the students of mathematics and computer science as an introduction to the fundamentals of discrete mathematics The book is designed in accordance with the syllabi of B E B Tech MCA and M Sc Computer Science prescribed in most of the universities of India Each chapter is supplemented with a number of worked example as well as a number of problems to be solved by the students This would help in a better understanding of the subject Contents Mathematical Logic Set Theory Relations Functions and Recurrence Relations Boolean Algebra Logic Gates Elementary Combinatorics Graph Theory Algebraic Structures Finite State Machines Applied Discrete Structures for Computer Science Alan Doerr,Kenneth Levasseur,1985 *Lectures On Discrete Mathematics For Computer Science* Bakhadyr M Khoussainov,Nodira Khoussainova,2012-03-21 This textbook presents fundamental topics in discrete mathematics introduced from the perspectives of a pure mathematician and an applied computer scientist The synergy between the two complementary perspectives is seen throughout the book key concepts are motivated and explained through real world examples and yet are still formalized with mathematical rigor The book is an excellent introduction to discrete mathematics for computer science software engineering and mathematics students The first author is a leading mathematician in the area of logic computability and theoretical computer science with more than 25 years of teaching and research experience The second author is a computer science PhD student at the University of Washington specializing in database systems The father and daughter team merges two different views to create a unified book for students interested in learning discrete mathematics the connections between discrete mathematics and computer science and the mathematical foundations of computer science Readers will learn how to formally define abstract concepts reason about objects such as programs graphs and numbers investigate properties of algorithms and prove their correctness The textbook studies several well known algorithmic problems including the path problem for graphs and finding the greatest common divisor inductive definitions

proofs of correctness of algorithms via loop invariants and induction the basics of formal methods such as propositional logic finite state machines counting probability as well as the foundations of databases such as relational calculus   Discrete Mathematics for Computer Science Jon Pierre Fortney,2020-12-23 Discrete Mathematics for Computer Science An Example Based Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook   **A Short Course in Discrete Mathematics** Edward A. Bender,S. Gill Williamson,2005-01-01 What sort of mathematics do I need for computer science In response to this frequently asked question a pair of professors at the University of California at San Diego created this text Its sources are two of the university s most basic courses Discrete Mathematics and Mathematics for Algorithm and System Analysis Intended for use by sophomores in the first of a two quarter sequence the text assumes some familiarity with calculus Topics include Boolean functions and computer arithmetic logic number theory and cryptography sets and functions equivalence and order and induction sequences and series Multiple choice questions for review appear throughout the text Original 2005 edition Notation Index Subject Index

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