



THIRD EDITION

Discrete Structures, Logic, and Computability

James L. Hein

Discrete Structures Logic And Computability

John Gregory, Don Redmond



Discrete Structures Logic And Computability:

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Discrete Mathematics James L. Hein, 2003

Automata and Languages Alexander Meduna, 2012-12-06 *Automata and Languages* presents a step by step development of the theory of automata languages and computation Intended to be used as the basis of an introductory course to this theory at both junior and senior levels the text is organized in such a way as to allow the design of various courses based on selected material Areas featured in the book include basic models of computation formal languages

and their properties computability decidability and complexity a discussion of the modern trends in the theory of automata and formal languages design of programming languages including the development of a new programming language compiler design including the construction of a complete compiler Alexander Meduna uses clear definitions easy to follow proofs and helpful examples to make formerly obscure concepts easy to understand He also includes challenging exercises and programming projects to enhance the reader's comprehension and to put the theory firmly into a real world context he presents lots of realistic illustrations and applications in practical computer science

Formal Languages and Computation Alexander Meduna, 2014-02-11 Formal Languages and Computation Models and Their Applications gives a clear comprehensive introduction to formal language theory and its applications in computer science It covers all rudimentary topics concerning formal languages and their models especially grammars and automata and sketches the basic ideas underlying the theory of computation including computability decidability and computational complexity Emphasizing the relationship between theory and application the book describes many real world applications including computer science engineering techniques for language processing and their implementation Covers the theory of formal languages and their models including all essential concepts and properties Explains how language models underlie language processors Pays a special attention to programming language analyzers such as scanners and parsers based on four language models regular expressions finite automata context free grammars and pushdown automata Discusses the mathematical notion of a Turing machine as a universally accepted formalization of the intuitive notion of a procedure Reviews the general theory of computation particularly computability and decidability Considers problem deciding algorithms in terms of their computational complexity measured according to time and space requirements Points out that some problems are decidable in principle but they are in fact intractable problems for absurdly high computational requirements of the algorithms that decide them In short this book represents a theoretically oriented treatment of formal languages and their models with a focus on their applications It introduces all formalisms concerning them with enough rigors to make all results quite clear and valid Every complicated mathematical passage is preceded by its intuitive explanation so that even the most complex parts of the book are easy to grasp After studying this book both student and professional should be able to understand the fundamental theory of formal languages and computation write language processors and confidently follow most advanced books on the subject

Algorithm Handbook Mark Thompson, 2018-07-16 An algorithm pronounced AL go rith um is a procedure or formula for solving a problem based on conducting a sequence of specified actions A computer program can be viewed as an elaborate algorithm In mathematics and computer science an algorithm usually means a small procedure that solves a recurrent problem

Elementary Logic Robert Lover, 2008-10-26 The ability to reason correctly is critical to most aspects of computer science and to software development in particular This book teaches readers how to better reason about software development to communicate reasoning to distinguish between good and bad reasoning and to read

professional literature that presumes knowledge of elementary logic The reader's knowledge and understanding can be assessed through numerous examples and exercises This book provides a reader friendly foundation to logic and offers valuable insight into the topic thereby serving as a helpful reference for practitioners as well as students studying software development

Elements of Compiler Design Alexander Meduna,2007-12-03 Maintaining a balance between a theoretical and practical approach to this important subject *Elements of Compiler Design* serves as an introduction to compiler writing for undergraduate students From a theoretical viewpoint it introduces rudimentary models such as automata and grammars that underlie compilation and its essential phases Based on these models the author details the concepts methods and techniques employed in compiler design in a clear and easy to follow way From a practical point of view the book describes how compilation techniques are implemented In fact throughout the text a case study illustrates the design of a new programming language and the construction of its compiler While discussing various compilation techniques the author demonstrates their implementation through this case study In addition the book presents many detailed examples and computer programs to emphasize the applications of the compiler algorithms After studying this self contained textbook students should understand the compilation process be able to write a simple real compiler and easily follow advanced books on the subject

A Practical Introduction to Data Structures and Algorithm Analysis Clifford A. Shaffer,2001 This practical text contains fairly traditional coverage of data structures with a clear and complete use of algorithm analysis and some emphasis on file processing techniques as relevant to modern programmers It fully integrates OO programming with these topics as part of the detailed presentation of OO programming itself Chapter topics include lists stacks and queues binary and general trees graphs file processing and external sorting searching indexing and limits to computation For programmers who need a good reference on data structures

C++ Plus Data Structures Nell B. Dale,1999 Written as a second semester text which focuses on abstract data types from three perspectives specification application and implementation Within this focus the author stresses computer science theory and software engineering principles using chapter exercises case studies and programming as

Discrete Mathematics James L. Hein,1996 This book 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

Introduction to Numerical Analysis John Gregory,Don Redmond,1994

Elementary Logics Dov M. Gabbay,1998 This text aims to introduce classical logic in such a way that one can also easily deviate into discussing non classical logics It defines the many types of logics and the differences between them starting with the basic notions of the most common logic and working through the many non classical logics

The Engineering of Software Dick Hamlet,Joe Maybee,2001 In this book the authors provide an introduction to the essential activities involved in a software engineering project Readers will come to understand technical skills in requirements specification analysis design implementation and testing These methods are treated fully with a multitude of examples for readers to emulate The

book is divided into four parts Software and Engineering Requirements and Specification Design and Coding and Software Testing to discuss the phases besides coding of the software lifecycle It covers modern topics like Capability Maturity Model Java Automated and Regression testing and Safety for mission critical projects This book is designed to hone the skills of the software engineer by reinforcing the methods and techniques used throughout the software lifecycle It is also suitable for crossover engineers trained in other technical field who now find themselves working with software

Mathematical Logic, Computability, Complexity, And Randomness - Proceedings Of The 16th Asian Logic Conference And 14th International Conference On Computability, Complexity, And Randomness Jorg Brendle,Rod Downey,Sergey S Goncharov,Manat Mustafa,Guohua Wu,Yue Yang,2025-11-10 This volume presents the combined proceedings of two major conferences in mathematical logic the 16th Asian Logic Conference ALC and the 14th International Conference on Computability Complexity and Randomness CCR held at Nazarbayev University Astana Kazakhstan from 17 21 June 2019 and 23 25 June 2019 respectively ALC is a prominent international event promoting research and collaboration in logic across the Asia Pacific region featuring developments in mathematical logic logic in computer science and philosophical logic CCR focuses on algorithmic information theory Kolmogorov complexity and their intersections with computability complexity theory and reverse mathematics This collection brings together leading voices in the field offering fresh perspectives and state of the art research in logic computability set theory and model theory It is an essential resource for researchers scholars and students interested in contemporary developments in mathematical logic and its applications

Computer Aided Systems Theory,2001 **Introduction to Fractals and Chaos** Richard M. Crownover,1995 Physics Quantum Physics

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