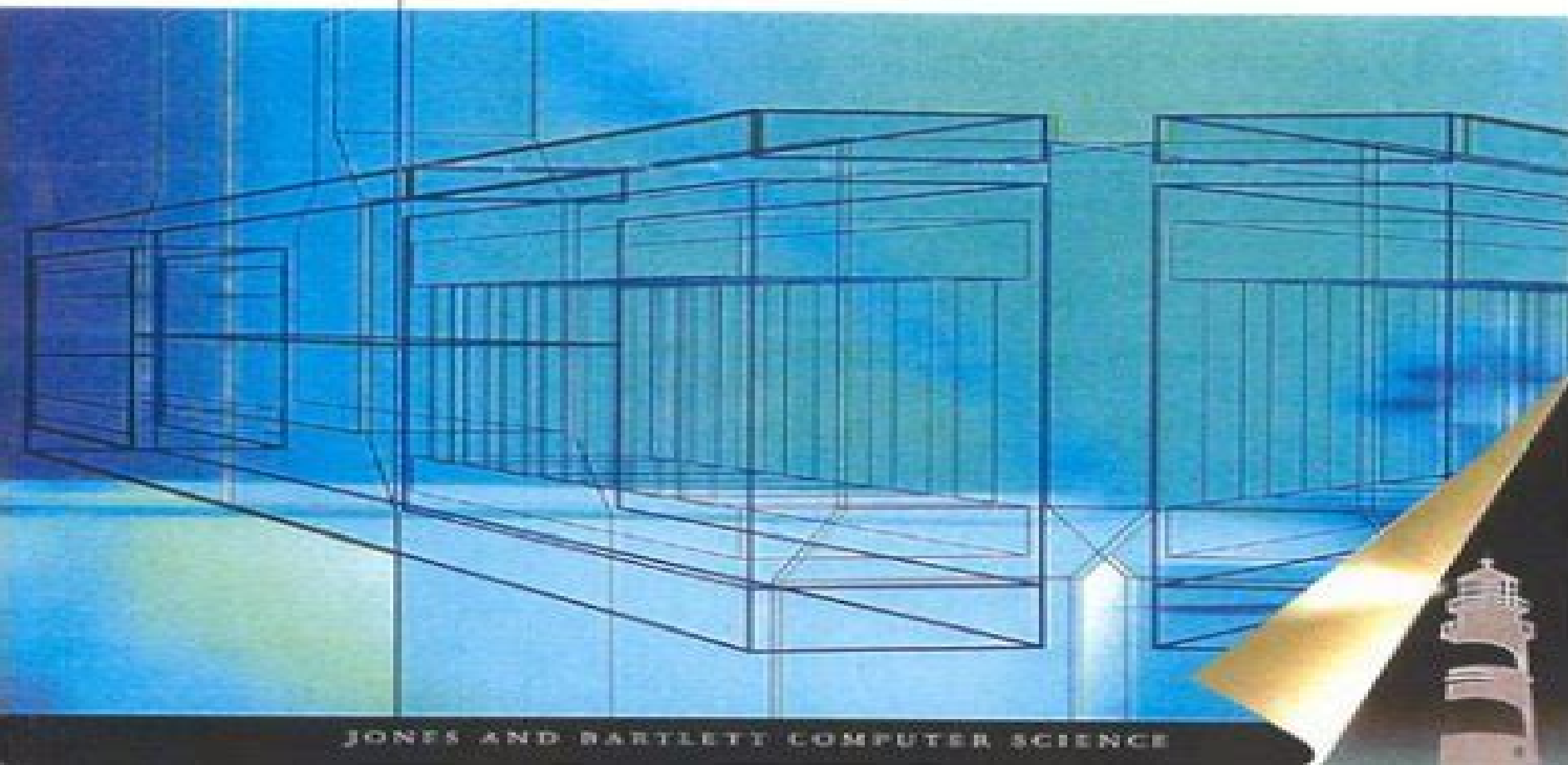


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Formal Languages and Computation Alexander Meduna, 2014-02-11 Formal Languages and Computation Models and Their Applications gives a clear comprehensive introduction to formal language theory and its applications in computer science It covers all rudimental 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

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

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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

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used by computer scientists today focusing on discrete structures logic and computability

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

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

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

Computer Aided Systems Theory, 2001

The Cumulative Book Index, 1996 A world list of books in the English language

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