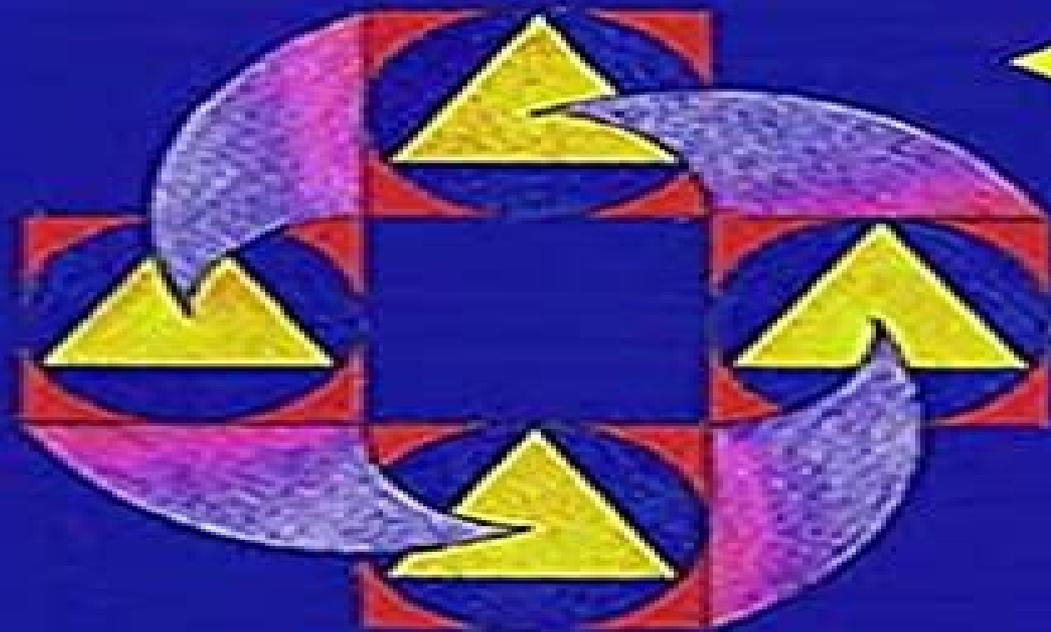


COMPUTER ALGORITHMS

Introduction to Design & Analysis

*Third
Edition*



*Sara Baase
Allen Van Gelder*

Computer Algorithms Introduction To Design And Analysis

Sara Baase



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The Design and Analysis of Algorithms Dexter C. Kozen,2012-12-06 These are my lecture notes from CS681 Design and Analysis of Algorithms a one semester graduate course I taught at Cornell for three consecutive fall semesters from 88 to 90 The course serves a dual purpose to cover core material in algorithms for graduate students in computer science preparing for their PhD qualifying exams and to introduce theory students to some advanced topics in the design and analysis of algorithms The material is thus a mixture of core and advanced topics At first I meant these notes to supplement and not supplant a textbook but over the three years they gradually took on a life of their own In addition to the notes I depended heavily on the texts A V Aho J E Hopcroft and J D Ullman The Design and Analysis of Computer Algorithms Addison Wesley 1975 M R Garey and D S Johnson Computers and Intractability A Guide to the Theory of NP Completeness w H Freeman 1979 R E Tarjan Data Structures and Network Algorithms SIAM Regional Conference Series in Applied Mathematics 44 1983 and still recommend them as excellent references

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[Data Structures, Algorithms, and Software Principles in C](#)

Thomas A. Standish, 1995 *Using C* this book develops the concepts and theory of data structures and algorithm analysis in a gradual step by step manner proceeding from concrete examples to abstract principles Standish covers a wide range of both traditional and contemporary software engineering topics The text also includes an introduction to object oriented programming using C By introducing recurring themes such as levels of abstraction recursion efficiency representation and trade offs the author unifies the material throughout Mathematical foundations can be incorporated at a variety of depths allowing the appropriate amount of math for each user

Library Recommendations for Undergraduate Mathematics

Lynn Arthur Steen, 1992 *Scientific and Technical Aerospace Reports*, 1977 *Dr. Dobb's Journal of Software Tools for the Professional Programmer*, 1988

Data Structures in Java Thomas A. Standish, 1998 *Using Java TM 1 1* Professor Thomas A Standish teaches the fundamentals of data structures and algorithms With this exciting new language Standish takes a fresh look at the subject matter New challenges arise any time a new language is used and the author meets these challenges For example although Java is a language without explicit pointers this book offers pointer diagrams to help students visualize reason about and understand this major Data Structures topic Standish s clear presentation helps readers tie the many concepts of data structures together with recurring themes Central ideas such as modularity levels of abstraction efficiency and tradeoffs serve as integrators in the book in order to tie the material together conceptually and to reveal its underlying unity and interrelationships

Highlights Reviews the fundamentals of object oriented programming and Java in Chapter 2 and Appendix A allowing students with no prior knowledge of Java to get up and running quickly Creates a Java applet with a simple GUI in Chapter 2 Covers recursion early and carefully in Chapter 4 to help students grasp this challenging concept Includes an introduction to modularity and data abstraction concepts in Chapter 5 and coverage of key software engineering concepts and skills in Appendix C Contains common pitfall sections at the end of each chapter to help students recognize and avoid potential dangers Instructor s materials are available from your sales rep If you do not know your local sales representative please call 1 800 552 2499 for assistance or use the Addison Wesley Longman rep locator at <http://hepg.awl.com/replocator> 020130564XB04062001

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