

Data Structures Using Pascal

SECOND EDITION

Data Structures Using Pascal



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RODNEY J. ALKINGSTON

Data Structures Using Pascal

Kit Lester

Data Structures Using Pascal:

Data Structures in Pascal Edward M. Reingold, Wilfred J. Hansen, 1986 This is a revision of the authors 1982 volume into Pascal the language most widely used for teaching data structures Data structures are central to computer science and in particular to programming In the analytic areas appropriate data structures have been the key to advances in the design of algorithms Once appropriate data structures are carefully defined all that remains is routine coding A comprehensive understanding of data structure techniques is essential in the design of algorithms and programs This text presents a carefully chosen fraction of available material but supplement it with a wide variety of exercises No single book can discuss all known data structures or algorithms This text presents the art of designing data structures preparing the student to devise special purpose structures for specific problems as they present themselves *Data Structures Using PASCAL* Aaron M. Tenenbaum, Moshe Augenstein, 1981 Information and meaning The stack Recursion Queues and list Pascal list processing Graphs and their applications Sorting Searching Scalar types in Pascal Using one dimensional arrays Packed arrays Arrays parameters Value and variable parameters Records in Pascal Arrays of records Scope identifiers The with statement Efficiency of record access Packed records Files of records *Introduction to Data Structures with PASCAL* Thomas L. Naps, Bhagat Singh, 1986

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Instructor's Guide for Applied Data Structures Using Pascal Guy J. Hale, Richard J. Easton, 1987-01-01 *Information Structures* B. J. Lings, 1986 This book covers those aspects of a computer science course normally referred to as information structures or data structures It covers the techniques of information hiding specification data type realization and tuning It is written to be read as well as studied and includes a wealth of examples in Pascal all motivated and described Exercises at the end of the book are designed to highlight the major concepts and to encourage the student to use a disciplined approach to program construction Its underlying theme is data abstraction and this theme binds the book into a complete and cohesive college course aimed directly at undergraduate computer science students in their first and second years of study **A Practical Approach to Data Structures** Kit Lester, 1990 *Computer Programming and Data Structures Using Pascal* J. A. Bate, M.

S. Doyle, H. S. Ferch, Charles Babbage Research Centre, 1984 **Advanced Programming** Lawrence H. Miller, 1986 **Data Structures and Program Design in Pascal** Larry Nyhoff, Sanford Leestma, 1992 *Advanced Programming and Data Structures Using PASCAL* John H. Riley, 1990 *Computer Programming and Data Structures Using Pascal* John A. Bate, Michael S. Doyle, Howard John Ferch, Charles Babbage Research Centre, 1982 *Principles of Data Structures and*

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KEY BENEFIT Designed for those with an introductory knowledge of programming and problem solving in Pascal this book uses discussions examples exercises complete programs and sample runs to expose users to more advanced techniques. Covers topics such as software development data structures and abstract data types strings stacks queues algorithms and recursion lists other linked structures binary trees sorting sorting and searching files trees graphs and digraphs object and oriented programming **Programming with Data Structures** Robert Leroy Kruse, 1989

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