

Decker & Hirshfield

# The Analytical Engine

*An Introduction to Computer Science Using  
HyperCard 2.1*



*Second Edition*

# The Analytical Engine An Introduction To Computer Science Using Hypercard

**Karl J. Lieberherr**



## **The Analytical Engine An Introduction To Computer Science Using Hypercard:**

**The Analytical Engine** Rick Decker, Stuart Hirshfield, 1994 THE ANALYTICAL ENGINE is unique in its true survey course approach combined with the learn by doing method of incorporated laboratories While most introductions to computer science teach only programming THE ANALYTICAL ENGINE covers the spectrum of computer science topics from history and systems design to programming hardware and the effect of computing on society and each topic has a corresponding lab Unlike any other book on the market Decker and Hirshfield put the powerful tool of HyperCard into the hands of beginning computer science students resulting in interesting and creative programs The Analytical Engine Rick Decker, 1993

**The Analytical Engine** Rick Decker, Stuart Hirshfield, 1991 This text unleashes the power of ToolBook in a creative and interesting introduction to Computer Science for non majors The authors believe that computer science is a contact sport and their lab based approach reflects that attitude Each chapter leads into a substantial set of lab exercises that enable students to acquire hands on experience with computer science concepts logic and techniques Teaches programming using the OpenScript language which features English like syntax that is accessible to liberal arts students The authors use levels of abstraction as an organizing principle and a series of thought provoking metaphors to present and illustrate concepts in an exciting challenging and interesting way An Introduction to Computer Science Using C Roger Eggen, Maurice Eggen, 1993 This text is intended for an introductory course in computer science The authors present a conceptual introduction to key concepts and methodologies of computer science C is the language of instruction and is integrated only as needed to highlight points and demonstrate concepts throughout the text In addition to numerous exercises laboratory activities are incorporated into each Chapter after Chapter 1 leading students through an experimental approach to the concepts and techniques covered in the text Introduction to the Theory of Computation Michael Sipser, 1996 Discusses such topics as regular languages context free languages Church Turing thesis decidability reducibility the recursion theorem time complexity space complexity and provable intractability Interactive Computer Graphics in X Theodosios Pavlidis, 1996 An introduction to programming computer graphics using the X Window System for UNIX based computers *C++ with Object-oriented Programming* Paul S. Wang, 1994 C language is used here to bridge the gap between the theoretical underpinnings of object oriented programming and real world applications Beginning with a comprehensive C primer to get users up and running quickly it moves on to explore and explain key object oriented constructs programming methodologies and design functions **Working Classes** Rick Decker, Stuart Hirshfield, 1996 Decker and Hirshfield's Working Classes applies the C programming language to the study of data structures and abstract data types The authors organize their discussion of abstract data types according to their structural restrictions beginning with highly structured lists stacks and queues and progressing through trees and directed graphs to unstructured sets Chapter 10 examines the problem of regenerating text from a large sample using a real computer compiler system to

demonstrate how time and space constraints arise from the choice of data structure The book teaches by example with more than 350 exercises provided and most chapters conclude with an optional Explorations section that covers topics of special interest

**QBasic** Robert J. Bent, George C. Sethares, 1995 This new text gives readers a general introduction to programming in QBasic a complete and easy to use programming language provided with the MS DOS operation system for IBM PC and compatible computers The authors explore the QBasic programming environment in detail including complete chapters on data files modular programming selection statements and arrays The book takes a learn by doing approach with numerous programming exercises and clearly worked out examples and takes readers through the entire programming process from problem statement to finished product

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Understanding FORTRAN 77 and 90 Gene Zirkel, Eli Berlinger, 1994 Aimed at first year undergraduate engineering science and computer science students this book aims to motivate them via interesting examples and applications while emphasizing good programming style The authors support their strong coverage of programming issues with extensive pedagogical devices designed to help students grasp the logic behind programming and FORTRAN specifics Students are shown how to use FORTRAN as a problem solving tool through applied examples taken from engineering science and other disciplines

Structured Programming in Assembly Language for the IBM PC and PS/2 William C. Runnion, 1995 Focusing on ASL for the IBM PC the most popular PC in business and academia this book includes numerous simple to follow examples and code fragments Balanced exercise sets including drill exercises and programming objects provide students with exercises at an appropriate range of difficulty for a variety of skill levels

**Programming Languages** Kenneth C. Loudon, 1993 Software Programming Languages

Adaptive Object-oriented Software Karl J. Lieberherr, 1996 This ground breaking book presents a complete methodology for adaptive programming in any object oriented programming language Lieberherr s adaptive method signals a new approach to object oriented program design that goes beyond object encapsulation and hard coded navigation paths to achieve more flexible interactions among objects Programmers using this method work at a higher schematic level of abstraction graph notation represents the class structure and a propagation pattern language tells how to distribute meaningful methods including navigation across the structure Using this method programmers can easily adapt and modify programs as they evolve This book can be used with any object oriented programming environment or with the Demeter Tools Version 5.5 a complete professional software system for creating and maintaining adaptive programs

*Visual Basic Made Easy* Edward J. Coburn, 1995 Hundreds of illustrations guide readers through each step in writing successful Visual Basic 3.0 programs

Understanding Data Communications and Networks William A. Shay, 1995 Thoroughly updated for currency this book offers a clear presentation of data communications and network fundamentals Featuring a wide array of applications the book fully explains concepts and supports them with case studies or descriptions of specific software and other products Students learn the protocols of

analog and digital signals data compression data integrity data security local area networks asynchronous transfer mode ATM and much more The third edition includes important information on the latest developments of the Internet     *The Object Concept* Rick Decker, Stuart Hirshfield, 1995 This book presents a complete lab based introduction to computer programming based on the object oriented paradigm and the C programming language     Proceedings of the Twenty-second SIGCSE Technical Symposium on Computer Science Education Nell Dale, 1991     **The Architecture of Computer Hardware Systems Software** Irv Englander, 1996-02-27 Most computer architecture books are just too technical and complex Focusing on specific technology they often by pass the basics and are outdated as quickly as technology advances Now you can give your students a gentle introduction to computer architecture and systems software that will provide the appropriate amount of technical detail they need to make successful decisions in their future careers This text covers the basics in an accessible easy to understand way Organized in a form that parallels an actual computer system entire sections are devoted to principles of data hardware and software to emphasize the importance of computer structure Assuming only basic knowledge these sections build up to an in depth understanding of each topic and how they interrelate to make up a computer system     **The Architecture of Computer Hardware and Systems Software** Irv Englander, 2000-02-14 This newly revised reference presents fundamental computer hardware systems software and data concepts It provides a careful in depth non engineering introduction to the inner workings of modern computer systems The book also features the latest advances in operating system design and computer interconnection     *Advanced Technology in Education* Royal W. Van Horn, 1991

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