



Computer Science II Essentials (Essentials Study Guides)

By Research and Education Association Staff, Randall Raus

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Editorial Review

Review

The non-specialist who wants to acquire a minimum grounding ... might like to try an excellent work ... in two slim ... volumes. -- *BBC BASIC, 2000, Dr Edmund Burke, Nottingham University, UK*

From the Author

Even though Essentials of Computer Science II culminates in the fundamentals of how to design a computer, including the central processing unit (CPU), the control unit of the CPU, the RAM, the computer's machine and assembly language, and its operating system, no knowledge beyond basic arithmetic is required. It takes the reader from the electron level, through to how to use state diagrams to systematically design computer components, all the way to the design of the core operating system (kernel).

Topics include the design of the CPU and its control unit, the design of the CPU's assembly language, data structures (stack, queue, and binary tree), and the kernel. Also, Polish notation, binary search, software engineering, programming techniques, data representation (ASCII), and high level languages are covered. The section comparing three object oriented languages: Visual Basic, C++, and Java is especially intended to be understandable to the novice.

The binary, octal, and hexadecimal number systems, transistors and semiconductors, Boolean algebra, Karnaugh maps, design of logic circuits, flip-flops, memory cells, data bus, and RAM design are actually covered in its sister publication: Essentials of Computer Science I, which also covers clock synchronization, and computer architecture. Both these books stick to fundamental concepts that don't change as clock speeds increase, and RAMs get bigger.

From the Back Cover

REA's *Essentials* is an insightful series of practical and informative study guides covering nearly 100 subjects.

Our study guide for Computer Science II is packed with student-friendly topic reviews that explain everything about Computer Science II. It's a handy resource when preparing for Computer Science II exams or doing homework, and it makes a great textbook companion.

The Essentials of Computer Science II is also an invaluable resource for computer science teachers outlining a course curriculum, writing exams, and developing classroom assignments.

Users Review

From reader reviews:

Helen Elder:

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