



Schaum's Outline of Computer Architecture (Schaum's Outlines)

By Nick Carter

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- A problem/solution manual, integrating general principles and laboratory exercises, that provides students with the hands-on experience needed to master the basics of modern computer system design
- Features more than 200 detailed problems, with step-by-step solutions; many detailed graphics and charts; chapter summaries with additional "rapid-review" questions; and expert sidebar tips
- Describes analytical methods for quantifying real-world design choices regarding instruction sets, pipelining, cache, memory, I/O, and other critical hardware and software elements involved in building computers
- An ideal educational resource for the more than 70,000 undergraduate and graduate students who, each year, enroll in computer architecture and related courses

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Schaum's Outline of Computer Architecture (Schaum's Outlines) By Nick Carter Bibliography

- Sales Rank: #281992 in Books
- Brand: imusti
- Published on: 2002-01-16
- Released on: 2001-12-26
- Original language: English
- Number of items: 1
- Dimensions: 10.80" h x .60" w x 8.00" l, 1.64 pounds
- Binding: Paperback
- 336 pages

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Editorial Review

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Inside, you will find:

- Overview of hardware and software design elements in computer systems
- Concise explanations of hardware and software interface
- Complete details on the efficient use of system resources
- Solved problems in: instruction sets, pipelining, cache, memory, I/O and more!

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- Computer Arithmetic
- Machine Organization
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About the Author

Nick Carter, Ph.D. (Urbana, IL) is an assistant professor at the University of Illinois, Urbana-Champaign. He holds a doctorate in computer science from MIT, has worked at IBM's Yorktown, NY, research facility and was the memory system architect on MIT's prestigious M-Machine project.

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