



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

By Nick Carter

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

- 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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*By Nick Carter*

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From the Back Cover

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**If you don't have a lot of time but want to excel in class, this book helps you:**

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- Find answers fast
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Schaum's Outlines give you the information your teachers expect you to know in a handy and succinct format without overwhelming you with unnecessary jargon. You get a complete overview of the subject. Plus, you get plenty of practice exercises to test your skill. Compatible with any classroom text, Schaum's let you study at your own pace and remind you of all the important facts you need to remember fast! And Schaum's are so complete, they're perfect for preparing for graduate or professional exams.

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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- Introduction
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- Computer Arithmetic
- Machine Organization
- Programming Models
- Basic Processor Design
- Pipelining
- Instruction-Level Parallelism
- Introduction to Memory Systems

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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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