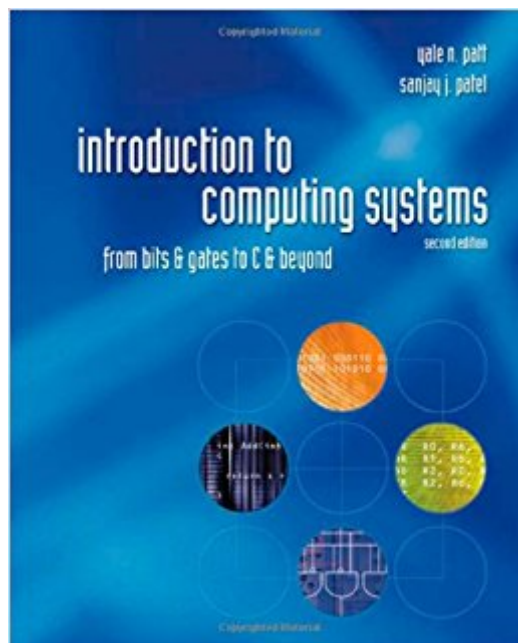




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Introduction To Computing Systems: From Bits And Gates To C And Beyond



Synopsis

Introduction to Computing Systems: From bits & gates to C & beyond, now in its second edition, is designed to give students a better understanding of computing early in their college careers in order to give them a stronger foundation for later courses. The book is in two parts: (a) the underlying structure of a computer, and (b) programming in a high level language and programming methodology. To understand the computer, the authors introduce the LC-3 and provide the LC-3 Simulator to give students hands-on access for testing what they learn. To develop their understanding of programming and programming methodology, they use the C programming language. The book takes a "motivated" bottom-up approach, where the students first get exposed to the big picture and then start at the bottom and build their knowledge bottom-up. Within each smaller unit, the same motivated bottom-up approach is followed. Every step of the way, students learn new things, building on what they already know. The authors feel that this approach encourages deeper understanding and downplays the need for memorizing. Students develop a greater breadth of understanding, since they see how the various parts of the computer fit together.

Book Information

Series: Computer Engineering

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Customer Reviews

Good introductory book. I remember using logic gates a while back, and this book explains it fairly well. It is flexible, taking various learning approaches. It can be used by anyone who wants to learn about computer systems, or just needs a good review.

Indian edition. Bad quality, but worth it

This book was extremely useful since documentation for the LC-3 is very scarce on the Internet. Also, a very good resource for learning assembly language.

Fantastic approach to teaching the foundation principles of how all computers work. A must read for any serious computer scientist and anyone who wants to understand how computers work at the most basic level. Fills in so many gaps!

Apparently this is the Indian version, the pages are very thin and there's no color. The text itself is pretty easy to follow. Well worth it for ~\$20

Good book used for my class. I usually get books and only use them for exams. However, I am always reading this one to understand subjects better.

International edition was much cheaper and has the same contents. Book is easy to follow.

A very good book, it has an elaborate didactic. It would be interesting to have a newer edition.

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