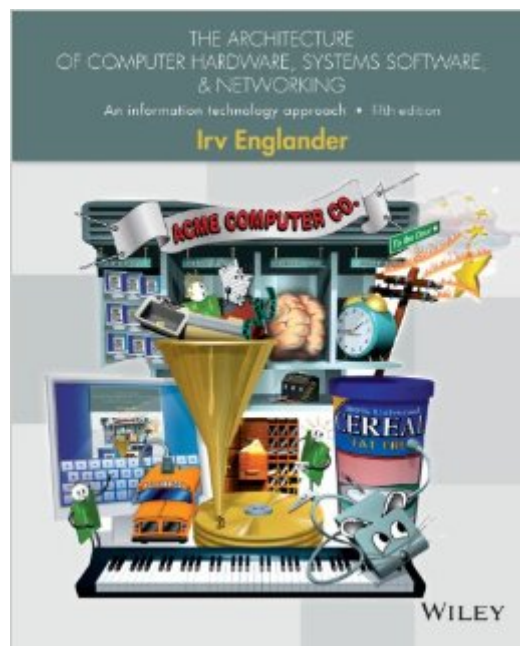# The Architecture Of Computer Hardware And System Software: An Information Technology Approach, 5th Edition

Synopsis

The Architecture of Computer Hardware and System Software provides the right amount of technical detail needed to succeed in the field. This accessible introduction provides the basic principles of computer system architecture and organization in the context of the current technological landscape. The author provides chapters on the fundamentals of networking as it relates to computer systems as well as all kinds of business systems, from entrepreneurial to small business, networked, distributed, and more. This valuable book provides IT professionals with several real-world case studies that clearly show how the concepts are applied in the field.

Book Information

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Customer Reviews

This is an outstanding text and has become a favorite for many AP High School and early undergrad survey courses relating architecture abstractions (interfaces) between hardware and software layers, as well as electronics vs. systems and software.That said, this new 5th edition has very few noteworthy changes from the 4th for the price. In fact, none of the "new" web resources exist at this writing, and all you get at Wiley (uncharacteristic for them) is an apologetic note from the author referring you back to the fourth edition's web resources and extra chapters, with a few

pages of notes.Those extras are crucial, because key chapters from the 3rd edition, especially on chipsets and logic, were removed and put online. In fact, the author does kindof a "three bears" and says that updates are really not even needed, because architecture itself hasn't changed that much, and the really fast changing things like mobile/ ARM and embedded are changing TOO fast for print!!So, the quality is worth it IMO, but some sellers are offering the 4th edition for pennies from time to time, and I'd recommend getting the 4th over this at a significant savings, yet believe the book itself fills a unique niche in both overviews and hardware/software interfaces. From there, you can then get specialized texts on parallel, etc. I'll update this review if Wiley/the author ever do put the new online chapters up.

Well, the book is in black and white. Not even spot color but black and white. For some diagrams that's okay but others it's absolutely ridiculous. Especially if you read the book on multiple devices and some screens are smaller. You can't make out some of the diagrams because you cannot tell what is pointing to where. Some of the diagrams on peripherals - mainly storage - were useless because it was all a mess of grey with pointers that just kinda blended into a mess of lines and labels.No attempt at all to use the additional space in the margins for important keywords, topics etc. Stop shoving everything to the back of the chapters and listing "keywords." We're not typesetting like it's the 80's. When you bold a word in a paragraph, call it out in the margins too! Do you have any idea how much easier this makes studying? Some publishers manage to do this. Why can't others? And color - it's an additional cost yes, but you're charging a fortune! What are you using it on? Seriously! It's not color/spot color and it's not formatting!It's hilarious that we have to take HCI and TechComm but almost all the books we read fail the principles we learn in these classes.And last: no additional web materials or resources. This is not the first time I've come across this since starting my program but it is approaching ridiculous. Two books priced almost $160 or more and absolutely no additional materials to speak of. Please guys, you need to make an effort. How hard is it to create some practice quizzes, flash cards? Etc?

The book is okay. I learned more from online resources such as videos about the book's material. The book pointed out important networking terms, topics, etc. Seriously, why isn't there a glossary? A bibliography, but no glossary?!

This book is the best I have seen on Computer Systems architecture AND it was delivered ahead of schedule. The books quality and service exceeded my expectations.

The best introduction to architecture for the the layperson or professional

It had information on the subject that I required for class.

It is highly useful for a student in the IT field.

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