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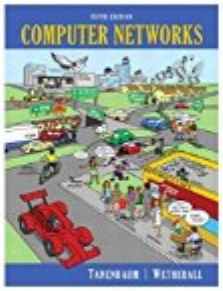
Computer Networks (5th Edition)



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Synopsis

Computer Networks, 5/e is appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science, Electrical Engineering, CIS, MIS, and Business Departments. Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media. Each chapter follows a consistent approach: Tanenbaum presents key principles, then illustrates them utilizing real-world example networks that run through the entire bookâ ”the Internet, and wireless networks, including Wireless LANs, broadband wireless and Bluetooth. The Fifth Edition includes a chapter devoted exclusively to network security. The textbook is supplemented by a Solutions Manual, as well as a Website containing PowerPoint slides, art in various forms, and other tools for instruction, including a protocol simulator whereby students can develop and test their own network protocols.

Book Information

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Customer Reviews

I have read this book in 1990 when it was in second edition. This book in its structure has unchanegd over past 22 years. The technologies have changed from X.25 networks to ATM networks to multi gigabit ethernet networks. some of the fundamental technologies like Ethernet, IP,

TCP have largely remains unchanged. IP has its new incarnations in IPv6 which is covered in this edition. The book is fun to read with Tanenbaum’s sense of humor. He has many exercises which motivate and make people think deep into the problems. WARNING! It is a giant book. It is a reference book. Don’t think you can read, grasp things in one sitting! The fifth edition is very thorough and I checked with the author. A new edition is not coming out soon, so this book should last several years.

The book maintain the classic structure of subjects based on the OSI model (which is good and proven to work for those who learn about networking)...you will notice the author has updated contents in several sections of the book: from entire new paragraphs, going trough the examples to the jokes itself, adapting them to the modern context in which we live.New interesting topics as RFID and 3g-4g cellular networks are also commented in good detail...I would say not "mile wide, inch deep", but "mile wide, two inches deep"I do not give them 5 stars because the problems and exercises at the end of each chapter do not have the solution (or at least the correct answer)...why not sharing the information once and for all???...

Plenty of the reviews already point out specific features of the book. I wanted to illuminate the mentality necessary to appreciate this book. In my opinion, this book is not meant to *establish interest* in networks for the average student. It is meant to present a fantastic swathe of knowledge to those *already interested*. This is why there are reviews that say its boring and dry and then reviews that say its one of the best books they had at engineering school. The appreciative reviewer likely already had interest in networking, or similar subjects, whereas the unappreciative reviewer probably wasn’t too enthused by the subject matter!This is not a knock on the reviewers who rated it poorly, but rather an attempt to ward off those who don’t have preliminary interest from buying this book. If you already have the interest, this a fantastic reference source. For those looking for a first course in networking, I would tend to recommend Kurose and Ross over this book for its more accessible wording and topic coverage. This is still a nice one to have in the collection though.

You might be lucky and love networks and I am sure that you will enjoy this book cover to cover. For the rest of use though, who don’t have networking background and/or huge interest in networking, this is much more complicated. I have to confess that when I read this book for the first time I gave up. I simply couldn’t force myself to go over lot of pages full of small text and often very academical terminology.I figured out that a better way might be something a bit more ... interactive. So I decided

to scratch my itch and I signed up to 'Computer Networks' course at coursera.org. During the first lecture they told me that recommended textbook is ... guess what. Gee.To my surprise this combination worked very well. I was taught some topic, and then I browsed over the book, skipped sections I was already familiar with, and stopped where it made sense to dig deeper.Content is really comprehensive. You will start with really really low level basics (signals, bits, noises), go through all the important hardware (switches, routers, hubs etc.), explore various protocol stacks (say hi to TCP, IP, HTTP ...) and even learn about hi-tech stuff from future and face interesting problematics of growing networks of today. And much more. I couldn't even imagine how broad is this before I opened the book.To sum up, this book is an excellent learning resource. Don't read it if you are not really serious about learning something about computer networks though! It's not exactly easy reading and it is going to cost you quite a lot of energy to get to the end. But man, it's definitely worth it!

This book has pages and pages of run on text without headers or highlighted words to help you find information on a particular topic. The index is half way worthless. There are few worked out examples that show how the numbers work out. Arrghhh - I sold this back as soon as I could get rid of it when the class was over, which is rare since I like to kept texts for references usually.

received the international economy edition, which is definitely missing the chapter on Network Security.Computer Networks 5th By Andrew S. Tanenbaum (International Economy Edition)

Terrible book. It just dumps a ton of information on you, and does not really teach it to you. You have to read everything veeeerrrrry slllllloooowwwwllllyyyyy. You have to take your time to understand exactly what is being said. The only way it makes sense is if you already understand it. I had never heard of a Fourier Transform, and at the beginning of chapter 2 the book just casually mentions it like it's no big deal. I wish I could sue the authors.

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