Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture

Douglas E. Comer

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The TCP/IP bible - now completely updated to reflect all the latest technologies! Leading Internet expert Douglas Comer has updated his classic, superb introduction to TCP/IP-based internetworking that is renowned for its clarity and accessibility in explaining internetworking and routing. Discover how the basic TCP/IP technology has survived and evolved over two decades of exponential growth, and understand the TCP/IP protocols and technical advances. This edition explains emerging technologies such as Mobile IP, Virtual Private Networks, resource reservation with RSVP, and Ipv6. Comer reveals how to master TCP/IP and how the Internet works. The reader is required to have a modest background in the fundamentals of computer systems, but does not need sophisticated mathematics. As with previous editions, this edition provides an introduction to physical networks and then shows how they are combined to form an internet. It states design principles clearly, and discusses motivations and consequences. THIS NEW EDITION OF VOLUME 1: *Explains how voice and video are sent over IP internets and how IP Telephony operates *Describes Mobile IP (a technology that allows a computer to move fr

Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture Details

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From Reader Review Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture for online ebook

David says

A detailed look at the transport of the Internet. As one who spent days configuring an NT server into a multihomed host using subnetting, a lot of the information is already known, but would be a good introduction for a technical minded person who can resist the urge to sleep. Starts out with obligatory origins of the net, thru dotted decimal notation, etc. Lots of good info on IP, routing, accessories like FTP and Telnet, and the section on IPng was very interesting. Would be a good textbook for a course.

Nima Omidan says

Here , better than ever , is the fifth edition of a landmark book , the book that signaled the coming of age of the Internet.

Vedran Novoselac says

As known to anyone involved with networking, TCP/IP networking is a mash-up of compromise, convention, and afterthought all intertwined in a seemingly chaotic, yet functional suite of protocols.

In such environment, what Comer does the best is ordering of topics so that each chapter patiently builds upon previous chapters, never leading reader to uncharted territory. This is the one feature of this book that I value the most. Level of technical detail in networking is overwhelming, but Comer carefully picked details necessary to keep the steam up.

Every chapter starts with very brief introduction, mainly serving as a motivation for the chapter, followed by lengthy discussion of technical details, and finally ending with a short summary, pointers to other sources (RFCs, books, and articles) and wealth of exercises.

Significant share of exercises in the book is relying on external sources, which can be seen as motivation for further reading. Answers to some of the exercises can be derived directly from the text, but there are many exercises discussional in nature. Those I liked the most.

Caveat lector: this book is purely theoretical and doesn't reveal any operational skills, save for the ability to reason about TCP/IP networks, but I would argue that's The Skill.

To conclude this review, I couldn't recommend this book more. It is the perfect first book on networking for anyone willing to invest some decent hours in it.

Natalie says

This is a classic!

Josh Readmore says

THE book on TCP/IP - combine with Wireshark to become a badass.

Luis says

sss

Mark Baller says

Great book but only read half of it.

K.Abinaya says

i have an exam so i want to read this book..

Joseph Njesuss says

i have exam..............

Jared says

The content is okay, but the explanations are rather unclear. I've read much better. And it's sadly out of date.

Wilde Luo says

A good Introduction to TCP/IP internet. It's easy to read and understand, and covers many interesting topics.