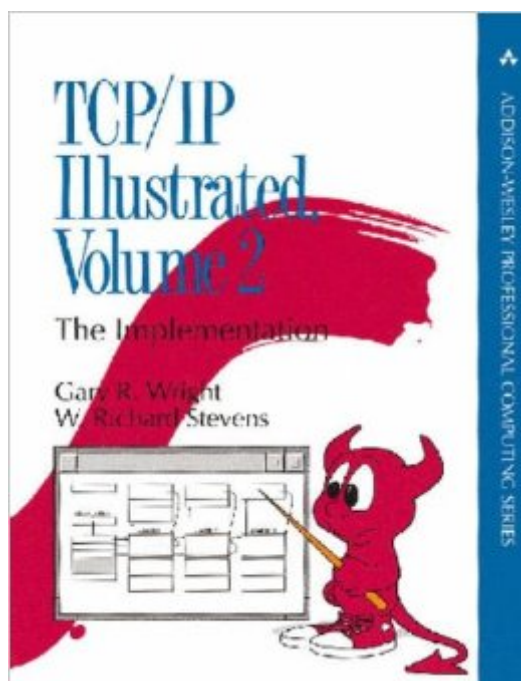


The book was found

TCP/IP Illustrated: The Implementation, Vol. 2



Synopsis

TCP/IP Illustrated, an ongoing series covering the many facets of TCP/IP, brings a highly-effective visual approach to learning about this networking protocol suite. TCP/IP Illustrated, Volume 2 contains a thorough explanation of how TCP/IP protocols are implemented. There isn't a more practical or up-to-date book this volume is the only one to cover the de facto standard implementation from the 4.4BSD-Lite release, the foundation for TCP/IP implementations run daily on hundreds of thousands of systems worldwide. Combining 500 illustrations with 15,000 lines of real, working code, TCP/IP Illustrated, Volume 2 uses a teach-by-example approach to help you master TCP/IP implementation. You will learn about such topics as the relationship between the sockets API and the protocol suite, and the differences between a host implementation and a router. In addition, the book covers the newest features of the 4.4BSD-Lite release, including multicasting, long fat pipe support, window scale, timestamp options, and protection against wrapped sequence numbers, and many other topics. Comprehensive in scope, based on a working standard, and thoroughly illustrated, this book is an indispensable resource for anyone working with TCP/IP.

Book Information

Hardcover: 1174 pages

Publisher: Addison-Wesley Professional; 1 edition (February 10, 1995)

Language: English

ISBN-10: 020163354X

ISBN-13: 978-0201633542

Product Dimensions: 7.8 x 1.7 x 9.6 inches

Shipping Weight: 4.4 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (27 customer reviews)

Best Sellers Rank: #83,225 in Books (See Top 100 in Books) #5 in [Books > Computers & Technology > Networking & Cloud Computing > Networks, Protocols & APIs > TCP-IP](#) #27 in [Books > Computers & Technology > Operating Systems > Unix](#) #97 in [Books > Textbooks > Computer Science > Operating Systems](#)

Customer Reviews

Even though this book was first published in 1995, it still serves as a useful research and reference guide to those involved in changing the TCP/IP protocol or the mathematical and simulation modeling of it. Most of the source code is included for the protocol and UDP is treated also, with Berkeley TCP/IP used as the protocol implementation. A brief introduction to descriptors and

memory buffers is given in Chapter 1, along with a discussion of input processing. The authors treat memory buffers (Mbufs) in detail in Chapter 2. Four different types of Mbufs are used in the protocol, depending on the flag setting in the `m_flags` member of the header. The source code clearly illustrates the data structures used for the Mbufs. This is followed by a detailed discussion of the Mbuf macros and functions. This is followed in the next chapter with a discussion of the interface layer and the all-important `sockaddr` data structure. In addition, the system initialization procedures are treated very nicely. This is followed by a very informative overview of the Ethernet interface, with most of the source code omitted since it is hardware specific. The LANCE driver is discussed thoroughly in this chapter. Then, in the next chapter, the SLIP and loopback interfaces are discussed with a very effective diagram used to illustrate the device drivers. The authors do manage to spend a few helpful paragraphs on SLIP performance considerations. Chapter 6 is a very detailed treatment of IP addressing, the most useful discussion being the one on the `in_init` function. This is followed by a discussion of the data structures used in domains and group protocols, with the IP initialization and transport multiplexing discussion being of particular interest to me.

[Download to continue reading...](#)

TCP/IP Illustrated: The Implementation, Vol. 2 TCP/IP Illustrated, Vol. 2: The Implementation (Addison-Wesley Professional Computing Series) Networking Self-Teaching Guide: OSI, TCP/IP, LANs, MANs, WANs, Implementation, Management, and Maintenance TCP/IP Illustrated, Vol. 1: The Protocols (Addison-Wesley Professional Computing Series) MASON JAR RECIPES BOOK SET 5 book in 1: Meals in Jars (vol.1); Salads in Jars (Vol. 2); Desserts in Jars (Vol. 3); Breakfasts in Jars (Vol. 4); Gifts in Jars (Vol. 5): Easy Mason Jar Recipe Cookbooks The TCP/IP Guide: A Comprehensive, Illustrated Internet Protocols Reference TCP/IP Guide: A Comprehensive, Illustrated Internet Protocols Reference TCP/IP Illustrated, Volume 1: The Protocols (Addison-Wesley Professional Computing Series) TCP/IP Illustrated, Volume 1: The Protocols (2nd Edition) (Addison-Wesley Professional Computing Series) TCP/IP Illustrated TCP/IP Illustrated (3 Volume Set) Internetworking with TCP/IP, Vol. III: Client-Server Programming and Applications, Linux/Posix Sockets Version Internetworking with TCP/IP Vol. III Client-Server Programming and Applications-Windows Sockets Version Internetworking with TCP/IP Vol. I: Principles, Protocols, and Architecture Best Asian Recipes from Mama Li's Kitchen BookSet - 4 books in 1: Chinese Take-Out Recipes (Vol 1); Wok (Vol 2); Asian Vegetarian and Vegan Recipes (Vol 3); Egg Roll, Spring Roll and Dumpling (Vol 4) Camping Cookbook 4 in 1 Book Set - Grilling Recipes (Vol. 1); Foil Packet Recipes (Vol. 2); Dutch Oven Recipes (Vol. 3) and: Camping Cookbook: Fun, Quick & Easy Campfire and Grilling Recipes (Vol 4) Korea: An Illustrated History from Ancient Times to 1945

(Illustrated Histories) (Illustrated Histories (Hippocrene)) Reaching People under 30 while Keeping People over 60: Creating Community across Generations (TCP The Columbia Partnership Leadership Series) TCP/IP Lean: Web Servers for Embedded Systems (2nd Edition) Sams Teach Yourself TCP/IP in 24 Hours (5th Edition)

[Dmca](#)