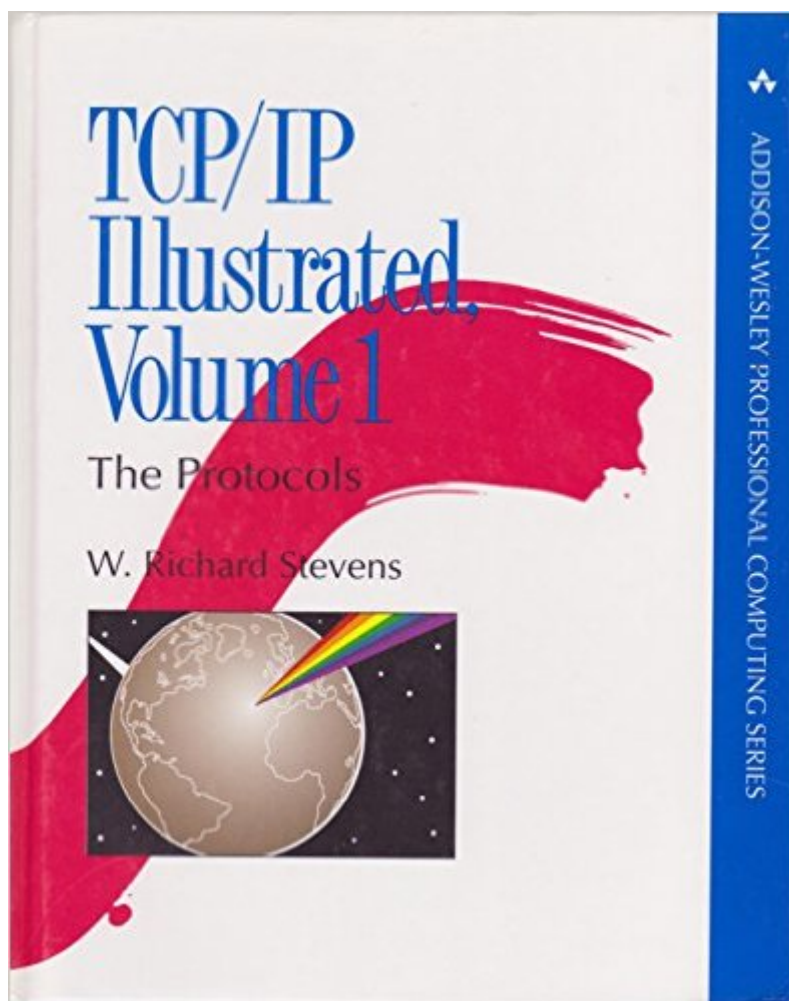The book was found

TCP/IP Illustrated, Vol. 1: The Protocols (Addison-Wesley Professional Computing Series)

Synopsis

For students writing applications that run over TCP/IP, or for those responsible for managing and maintaining a TCP/IP internet, this book's innovative approach helps readers at all levels to truly understand how TCP/IP really works. Rather than just describing the protocols from an abstract, standards-related point of view-describing what the standards say the protocol suite should do-TCP/IP Illustrated, Volume 1 actually shows the protocols in action. Stevens also recognizes that readers deal with multiple TCP/IP implementations on heterogeneous platforms. Therefore, the examples in this book show how current, popular TCP/IP implementations operate-SunOS 4.1.3, Solaris 2.2, System V Release 4, BSD/386, AIX 3.2.2, and 4.4 BSD-and they relate these real-world implementations to the RFC standards.

Book Information

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Customer Reviews

Even though this book was published in 1994, it still serves as a useful reference and learning tool for the TCP/IP protocol. There are of course changes and additions that have been made to TCP/IP over the last 7 years such as IPv6, but one can still refer to this book as a good source of information about the dynamics of TCP/IP. There are exercises at the end of each chapter, so it can, and has been used as an effective textbook. In chapter 1, the author gives a brief overview of protocol layering, Internet addressing, and the domain name system. The encapsulation mechanisms for TCP and UDP are outlined as well as a discussion of the different implementations of TCP/IP. The Vegas implementation is not discussed since it was invented long after the date of

publication of this book. Ethernet and the encapsulation provided by IEEE, SLIP, and PPP is discussed in the next chapter on the link layer, along with the loopback interface and MTU. Estimates are given of serial line throughput, setting the stage for later timing calculations. The IP protocol is the subject of chapter 3, the author stressing first the connectionless and unreliable nature of IP packet transfer. The IP datagram format is given in discussed, along with a detailed discussion of subnet addressing and subnet masks. The discussion of IP given here is of course very out of date with the advent of IPv6. Chapter 4 is an overview of ARP, and the author illustrates it effectively using an example of an FTP transfer and Telnet. This is followed by a treatment of RARP in the next chapter, with the limitations of this protocol briefly discussed. Although ARP is incorporated in all current implementations of TCP/IP (with the exception of IPv6), not all of these include RARP.

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