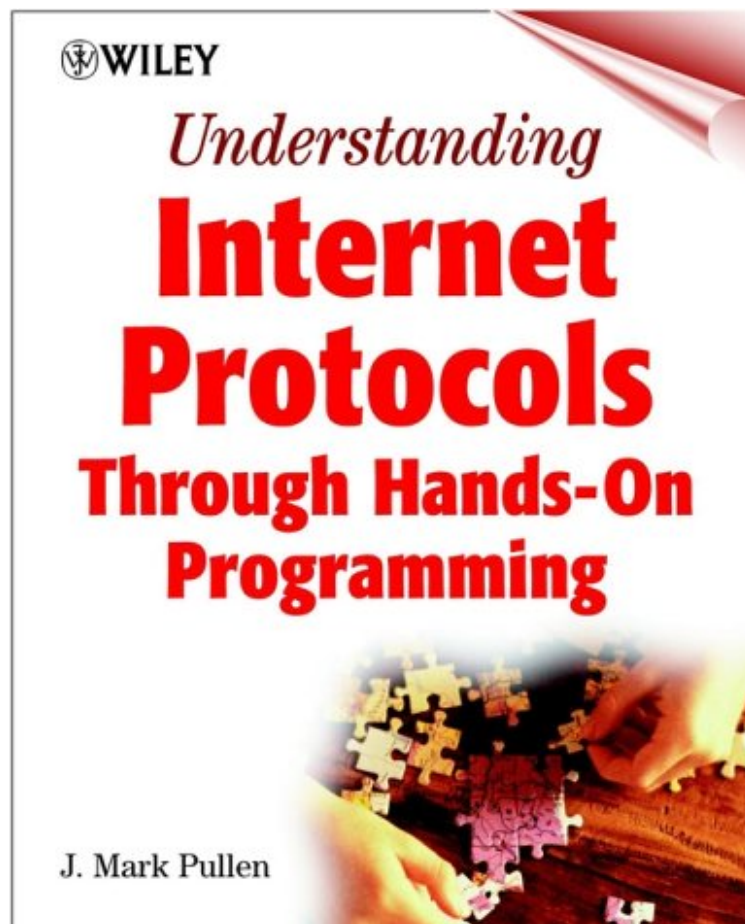


(Download ebook) Understanding Internet Protocols: Through Hands-On Programming: An Interactive Hands-on Approach

Understanding Internet Protocols: Through Hands-On Programming: An Interactive Hands-on Approach

Von J Mark Pullen

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KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Good book for learning network protocols praticlyVon Ein KundeThis book is just what I am looking for. It combines the theories and the practical applications well.

Kurzbeschreibung Auf der ganzen Welt werden Unternehmensnetzwerke gegenwärtig auf eine Kombination aus Internet und Intranet umgestellt. Entwickler, die sich mit der Programmierung von Internet-Protokollen auskennen, sind folglich überall gefragt. Diese einzigartige, interaktive Kombination aus Buch und CD-ROM vermittelt Ihnen das nötige Rüstzeug! In einzelnen Kapiteln des Buches werden Protokolle und Algorithmen beschrieben; der zugehörige Abschnitt der CD gibt die Möglichkeit zum Programmieren des Protokolls in C++.

Synopsis This interactive book/CD-ROM aims to give programmers all the hands-on training they need to master Internet protocol programming. Each chapter of the book describes a different protocol and explains its algorithms, and on the corresponding segment of the CD-ROM, programmers can program the protocol in C++. The book covers: the Internet Protocol Stack and the Network Workbench; wide-area network topology; data link control-framing, error detection and flow control; local area networks; and network protocols-routing, computation and multicasting.

Buchrückseite "The only learn-by-doing book on Internet protocols-highly recommended." - Scott Bradner, IETF Transport Area Director

Companies worldwide are scrambling to migrate their networks to an Internet/intranet configuration. As a result, the demand for technical professionals who understand how Internet protocols work has never been greater. Written by Dr. Mark Pullen, recipient of the IEEE Harry Diamond Memorial Award for his work in networking for distributed simulation, this book/CD package focuses on detailed explanations and exercises to develop knowledge of Internet protocols. Each chapter describes an important protocol by introducing its technology context and explaining its principal algorithm(s). Then a series of hands-on projects are presented where you'll actually program the central algorithms in C and test them using the Network Workbench software created by Dr. Pullen. As you complete each project, you'll acquire a deeper understanding of how Internet protocols work. As a result, you will understand how and why the Internet works - knowledge that is in hot demand!

Key topics covered in this book include:

- * The Internet Protocol Stack and the Network Workbench
- * Wide Area Network topology
- * Data link control-framing, error detection, flow control
- * Local Area Networks-Ethernet and token passing
- * Network protocols-routing, computation, multicasting
- * Application layer servers and clients
- * Network security and firewalls

The CD-ROM contains: Network Workbench, a program that replicates Internet protocol behavior and lets you practice Internet simulation one step at a time. It runs on Windows, Sun Unix, or Linux. As a bonus, it contains lecture slides from Dr. Pullen's introductory networking course!