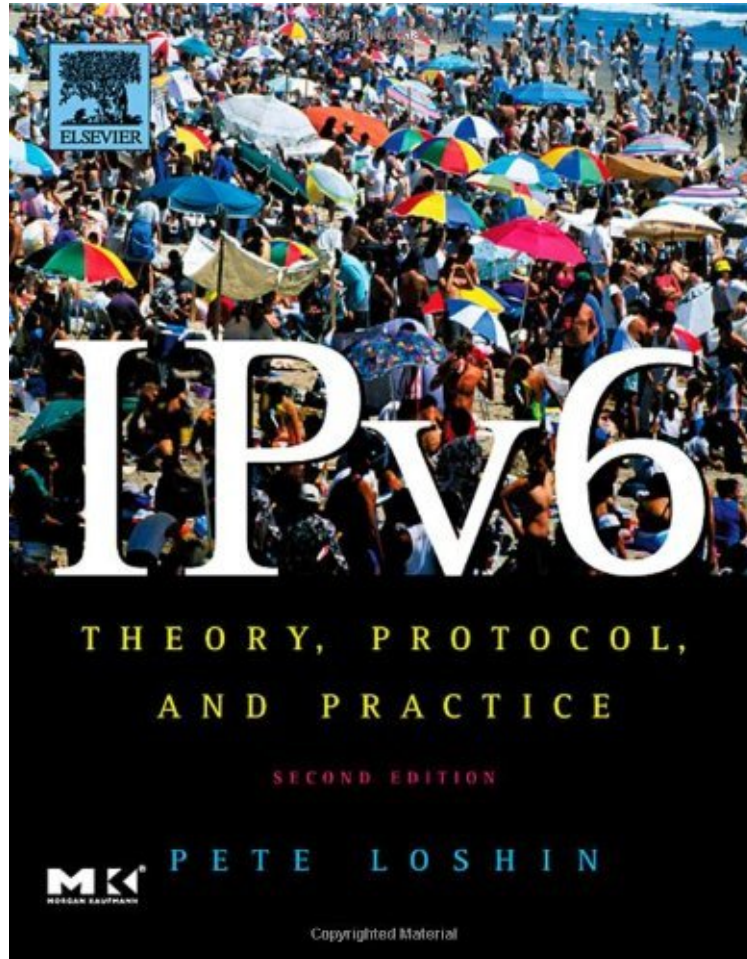


(Mobile ebook) IPv6: Theory, Protocol, and Practice (The Morgan Kaufmann Series in Networking)

# IPv6: Theory, Protocol, and Practice (The Morgan Kaufmann Series in Networking)

Von Peter Loshin

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**Von Peter Loshin : IPv6: Theory, Protocol, and Practice (The Morgan Kaufmann Series in Networking)** before purchasing it in order to gage whether or not it would be worth my time, and all praised IPv6: Theory, Protocol, and Practice (The Morgan Kaufmann Series in Networking):

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Good introduction, no buts.Von Ein KundeThis is a good straightforward introduction to IPv6 for anyone, regardless of whether or not they know much about IP and TCP/IP in general. It explains the problems with IPv4, why IPv6 solves them, covers the issues involved in migrating, pretty much everything about IPv6. Even if you feel comfortable reading RFCs, this book can still help as a quick reference (and it clarifies stuff that isn't made clear in other IPv6/IPng books or in the RFCs either). I liked it.0 von 0 Kunden fanden die folgende Rezension hilfreich. Very good!Von Glaucio AlkminThis book is an excelent introduction to the IPv6 protocol. The author always compares IPv4 with

IPv6, showing which are the improvements and the good solutions. In other words, it is possible to understand why the IPv6 is necessary, and what are the changes made from IPv4. The only problem of this book is the appendix, 50 pages of RFCs index and texts... 0 von 0 Kunden fanden die folgende Rezension hilfreich. A clear guide to the next generation IPv6. Ein KundeThe current version of IP has been around for a long time, and it is clearly time for the next version! Loshin has done a superb job of describing IPv6, and this book is a great guide for anyone expecting to be involved in the Internet over the next 10 years!

**Kurzbeschreibung**The second edition of IPv6: Theory, Protocol, and Practice guides readers through implementation and deployment of IPv6. The Theory section takes a close, unbiased look at why so much time and effort has been expended on revising IPv4. In the Protocol section is a comprehensive review of the specifics of IPv6 and related protocols. Finally, the Practice section provides hands-on explanations of how to roll out IPv6 support and services. This completely rewritten edition offers updated and comprehensive coverage of important topics including router and server configuration, security, the impact of IPv6 on mobile networks, and evaluating the impact of IPv6-enabled networks globally. Pete Loshin's famously lucid explanations benefit readers at every turn, making IPv6: Theory, Protocol, and Practice the best way for a large diverse audience to get up to speed on this groundbreaking technology.\* The comprehensive, accessible, and up-to-date resource needed by network engineers and support staff, product developers and managers, programmers, and marketing professionals\* Divided into sections on theory, the protocol's technical details, and techniques for building IPv6 networks, this book covers not only the protocol but the ways in which the protocol can be integrated into networks.\* Covers critical topics in depth, including router and server configuration, security, value assessment, and the impact of IPv6 on global networks

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**Synopsis** IP version 6, or IPv6 for short, is probably the most significant network upgrade in the history of technology. It will require every company in the world selling TCP/IP-enabled software, hardware, or services to evaluate the need to upgrade or modify their products; it will require the users or administrators of virtually every networked computer system on the planet to consider how best to migrate to the next generation of internetworking protocol. Anyone with any interest in the continued viability and growth of the Internet or TCP/IP networking needs to read this book to better understand how IP works, why IPv6 will work better, and what they must do to be prepared for the change. Building on discussion of how the current versions of IP and other protocols in the TCP/IP suite work and behave, in the first part I discuss the problems that arose over the past 20 years, as well as the various solutions proposed to solve them. Also included are an introduction of the new features, functions, and operation of the new IPv6 and related protocols like the Internet Control Message Protocol (ICMP), Domain Name System (DNS), and routing protocols. The second part delves in detail into the workings of the new protocols, with particular attention to handling IPv6 addresses, IPv6 extensions, IPv6 support for authentication and security, IPv6 anycast and multicast support, and support for mobile hosts in IPv6. Also included here are discussions of IPv6 routing issues and solutions, as well as other protocols, like DNS and ICMP, that will change to accommodate the new version of IP. The final part examines the issues of deployment. Discussed here are strategies that network product vendors are taking with their products as well as strategies for transition appropriate for individual users and smaller organizations as well as for larger organizations with correspondingly larger networks. Options include tunneling approaches, dual-stack approaches, and development of an Internet backbone structure supporting IPv6. Rounding out the book are appendices that include a list of relevant RFCs as well as the complete text of several of the most important and interesting IPv6 RFCs, and an index.