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and shows the implementation  
of global and local settings for  
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redistribution, and addressing and summarization. This first part provides specific techniques, usable in all routing protocols, to work around real-world problems. The next part of the book details specific information on deploying



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each interior gateway protocol (IGP) including EIGRP, OSPF, and IS-IS in real-world network environments. Part III covers advanced topics in network design, including border gateway protocol (BGP), high-availability, routing

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start to finish Use IP Prefix lists  
in prefix filtration, packet**

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*interoperation Use advanced*

*OSPF techniques, including route*

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filtering Understand what  
happens when you perform  
redistribution, and manage  
problematic scenarios Manage  
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Routing TCP/IP, Volume 1, Second Edition, provides a detailed analysis of each of the IP interior gateway protocols (IGPs). Its structure remains the same as the best-selling first edition, though information within each section is enhanced and modified to

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include the new developments in  
routing protocols and Cisco

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Edition? The first edition covers  
routing protocols as they existed in  
1998. The new book updates all  
covered routing protocols and  
discusses new features integrated in

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the latest version of Cisco IOS

Software. IPv6, its use with interior routing protocols, and its interoperability and integration with IPv4 are also integrated into this book. Approximately 200 pages of new information are added to the main text, with some old text removed. Additional



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exercise and solutions are also included.

Written for TCP/IP network administrators, protocol designers, and network application developers, this introductory text explains the inner workings of the OSPF (Open Shortest Path First) TCP/IP routing protocol for

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the Internet. Topics covered include:  
OSBF virtual links, NBMA  
(nonbroadcast multi-access) network  
segments, interactions with other  
routing protocols, and protocol  
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previous editions, this fourth edition of TCP/IP Clearly Explained stands out more than ever. You still get a practical, thorough exploration of TCP/IP networking, presented in plain language, that will benefit newcomers and veterans alike. The coverage has been updated, however, to reflect new

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and continuing technological changes, including the Stream Control Transmission Protocol (SCTP), the Blocks architecture for application protocols, and the Transport Layer Security Protocol (TLS). The improvements go far beyond the updated material: they also include an

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they allow applications to be extended, and how changes in the environment necessitate changes to the protocols—there's only the one you hold in your hands. Explains clearly and holistically, but without oversimplification—the core protocols that make the global Internet possible

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A Clear and Comprehensive Guide to  
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containing both volumes one (ISBN: 9781599424910) and two (ISBN: 9781599425436) packaged together. The book provides a complete guide to the protocols that comprise the Internet Protocol Suite, more commonly referred to as TCP/IP. The work assumes no prior knowledge of TCP/IP and only a

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rudimentary understanding of

LAN/WAN access methods. The book is split into a number of sections; the manner in which data is transported between systems, routing principles and protocols, applications and services, security, and Wide Area communications. Each section builds on the last in a

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brings readers up-to-date on the latest enhancements and advanced IP routing issues. Routing TCP/IP, Volume II, Second Edition covers TCP connections, message states, path attributes, interior routing protocol interoperation, neighbor connections, and much more. The authors present crucial knowledge for



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Internet Layer 47 Hour 5 Subnetting and  
CIDR 69 Hour 6 The Transport Layer 83  
Hour 7 The Application Layer 107 Part  
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Routing 121 Hour 9 Getting Connected  
143 Hour 10 Firewalls 175 Hour 11  
Name Resolution 185 Hour 12 Automatic

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QoS. The need to protect critical applications via QoS mechanisms in business networks has escalated over the past few years, primarily due to the increased frequency and sophistication of denial-of-service (DoS) and worm attacks. End-to-



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End QoS Network Design is a detailed handbook for planning and deploying QoS solutions to address current business needs. This book goes beyond discussing available QoS technologies and considers detailed design examples that

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illustrate where, when, and how to deploy various QoS features to provide validated and tested solutions for voice, video, and critical data over the LAN, WAN, and VPN. The book starts with a brief background of network

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infrastructure evolution and the subsequent need for QoS. It then goes on to cover the various QoS features and tools currently available and comments on their evolution and direction. The QoS requirements of voice, interactive

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and streaming video, and multiple classes of data applications are presented, along with an overview of the nature and effects of various types of DoS and worm attacks. QoS best-practice design principles are introduced to show how QoS

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mechanisms can be strategically deployed end-to-end to address application requirements while mitigating network attacks. The next section focuses on how these strategic design principles are applied to campus LAN QoS

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design. Considerations and detailed design recommendations specific to the access, distribution, and core layers of an enterprise campus network are presented. Private WAN QoS design is discussed in the following section, where WAN-

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specific considerations and detailed QoS designs are presented for leased-lines, Frame Relay, ATM, ATM-to-FR Service Interworking, and ISDN networks. Branch-specific designs include Cisco® SAFE recommendations for using

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Network-Based Application Recognition (NBAR) for known-worm identification and policing. The final section covers Layer 3 VPN QoS design-for both MPLS and IPSec VPNs. As businesses are migrating to VPNs to meet their



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wide-area networking needs at lower costs, considerations specific to these topologies are required to be reflected in their customer-edge QoS designs. MPLS VPN QoS design is examined from both the enterprise and service provider's

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