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The comprehensive, hands-on guide

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for resolving IP routing problems
Understand and overcome common
routing problems associated with
BGP, IGRP, EIGRP, OSPF, IS-IS,
multicasting, and RIP, such as route
installation, route advertisement,
route redistribution, route

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summarization, route flap, and neighbor relationships Solve complex IP routing problems through methodical, easy-to-follow flowcharts and step-by-step scenario instructions for troubleshooting Obtain essential troubleshooting

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skills from detailed case studies by
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members Examine numerous
protocol-specific debugging tricks
that speed up problem resolution
Gain valuable insight into the minds
of CCIE engineers as you prepare

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for the challenging CCIE exams As the Internet continues to grow exponentially, the need for network engineers to build, maintain, and troubleshoot the growing number of component networks has also increased significantly. IP routing is

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at the core of Internet technology and expedient troubleshooting of IP routing failures is key to reducing network downtime and crucial for sustaining mission-critical applications carried over the Internet. Though troubleshooting

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skills are in great demand, few networking professionals possess the knowledge to identify and rectify networking problems quickly and efficiently. Troubleshooting IP Routing Protocols provides working solutions necessary for networking

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engineers who are pressured to acquire expert-level skills at a moment's notice. This book also serves as an additional study aid for CCIE candidates. Authored by Cisco Systems engineers in the Cisco Technical Assistance Center

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(TAC) and the Internet Support Engineering Team who troubleshoot IP routing protocols on a daily basis, Troubleshooting IP Routing Protocols goes through a step-by-step process to solving real-world problems. Based on the authors'

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combined years of experience, this complete reference alternates between chapters that cover the key aspects of a given routing protocol and chapters that concentrate on the troubleshooting steps an engineer would take to resolve the most

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common routing problems related to a variety of routing protocols. The book provides extensive, practical coverage of BGP, IGRP, EIGRP, OSPF, IS-IS, multicasting, and RIP as run on Cisco IOS Software network devices. Troubleshooting IP

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Routing Protocols offers you a full understanding of invaluable troubleshooting techniques that help keep your network operating at peak performance. Whether you are looking to hone your support skills or to prepare for the challenging

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CCIE exams, this essential reference shows you how to isolate and resolve common network failures and to sustain optimal network operation. This book is part of the Cisco CCIE Professional Development Series, which offers

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expert-level instruction on network design, deployment, and support methodologies to help networking professionals manage complex networks and prepare for CCIE exams.

Techniques for optimizing large-

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scale IP routing operation and
managing network growth

Understand the goals of scalable
network design, including tradeoffs
between network scaling,
convergence speed, and resiliency

Learn basic techniques applicable to

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any network design, including hierarchy, addressing, summarization, and information hiding Examine the deployment and operation of EIGRP, OSPF, and IS-IS protocols on large-scale networks Understand when and how to use a

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BGP core in a large-scale network and how to use BGP to connect to external networks Apply high availability and fast convergence to achieve 99.999 percent, or “five 9s” network uptime Secure routing systems with the latest routing

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used for carrying routing

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Routing Design provides the tools

and techniques, learned through

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design and deployment, to build a large-scale or scalable IP-routed network. The book takes an easy-to-read approach that is accessible to novice network designers while presenting invaluable, hard-to-find insight that appeals to more

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advanced-level professionals as well. Written by experts in the design and deployment of routing protocols, *Optimal Routing Design* leverages the authors' extensive experience with thousands of customer cases and network designs.

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Boiling down years of experience into best practices for building scalable networks, this book presents valuable information on the most common problems network operators face when seeking to turn best effort IP networks into

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networks that can support Public Switched Telephone Network (PSTN)-type availability and reliability. Beginning with an overview of design fundamentals, the authors discuss the tradeoffs between various competing points of

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network design, the concepts of hierarchical network design, redistribution, and addressing and summarization. This first part provides specific techniques, usable in all routing protocols, to work around real-world problems. The

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next part of the book details specific information on deploying each interior gateway protocol (IGP)—including EIGRP, OSPF, and IS-IS—in real-world network environments. Part III covers advanced topics in network design,

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including border gateway protocol (BGP), high-availability, routing protocol security, and virtual private networks (VPN). Appendixes cover the fundamentals of each routing protocol discussed in the book; include a checklist of questions and

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design goals that provides network engineers with a useful tool when evaluating a network design; and compare routing protocols strengths and weaknesses to help you decide when to choose one protocol over another or when to switch between

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protocols. “The complexity associated with overlaying voice and video onto an IP network involves thinking through latency, jitter, availability, and recovery issues. This text offers keen insights into the fundamentals of network

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architecture for these converged environments.” —John Cavanaugh, Distinguished Services Engineer, Cisco Systems® This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable

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how to configure it in IOS Learn
how to set up a router as a firewall
and intrusion detection system Gain
efficient use of your IP address
space with NAT, VLSM, IP
unnumbered Solve real-world
routing problems with redistribution,

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route filtering, summarization,
policy routing Enable
authentication, authorization, and
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with RADIUS and TACACS+
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new enabling and advanced IOS services that build more scalable, intelligent, and secure networks. You will learn the technical details necessary to deploy quality of service and VPN technologies, as well as improved security and

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advanced routing features. These services will allow you to securely extend the network to new frontiers, protect your network from attacks, and enhance network transport with application-level prioritization. This book offers a practical guide to

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implementing IPsec, the IOS Firewall, and IOS Intrusion Detection System. Also included are advanced routing principles and quality of service features that focus on improving the capability of your network. A good briefing on

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cryptology fully explains the science that makes VPNs possible. Rather than being another routing book, this is a guide to improving your network's capabilities by understanding and using the sophisticated features available to

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their study efforts, and enhance their confidence as exam day nears.

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a series of configuration examples designed to show the concept in a real-world environment, and relying on tested troubleshooting measures to resolve any problems that might arise.

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exterior routing protocols and
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enables you to: Master the
operational components,
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and exercises Familiarize
yourself with the design goals
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new generation of the IP protocol
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through a diverse range of expert-***

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your knowledge with practical,
comprehensive review
questions, configuration
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advanced TCP/IP concepts The complexities of exterior gateway protocols, including TCP connections, message states, path attributes, interior routing protocol interoperation, and setting up neighbor connections,

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and comprehensive topic coverage make this book an instant classic and a must-have addition to any network professional's library. Routing TCP/IP, Volume II, expands upon the central theme of Volume I:

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research, updating the book to fully reflect the latest protocols and best practices. He first introduces TCP/IP's core goals and architectural concepts, showing how they can robustly connect diverse networks and

support multiple services running concurrently. Next, he carefully explains Internet addressing in both IPv4 and IPv6 networks. Then, he walks through TCP/IP's structure and function from the bottom up:

from link layer protocols—such as Ethernet and Wi-Fi—through network, transport, and application layers. Fall thoroughly introduces ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting,

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multicasting, UDP, DNS, and much more. He offers extensive coverage of reliable transport and TCP, including connection management, timeout, retransmission, interactive data flow, and congestion control.

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systems such as the postal system, the telephone system, airports, and interstate highways and comparing them to the concepts and terminology used in IP routing and IP routing protocols, this reader-friendly

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***guide gives a simple, clear
understanding of what IP routing
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1 Foundations

***Troubleshooting IP Routing
Protocols***

***Cisco Routers for IP Networking
Black Book***

Border Gateway Protocol (BGP) is the routing protocol used to exchange

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routing information across the Internet. It makes it possible for ISPs to connect to each other and for end-users to connect to more than one ISP. BGP is the only protocol that is designed to deal with a network of the Internet's size, and the only protocol that can deal well with having multiple connections to unrelated

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routing domains. This book is a guide to all aspects of BGP: the protocol, its configuration and operation in an Internet environment, and how to troubleshooting it. The book also describes how to secure BGP, and how BGP can be used as a tool in combating Distributed Denial of Service (DDoS)

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attacks. Although the examples throughout this book are for Cisco routers, the techniques discussed can be applied to any BGP-capable router. The topics include: Requesting an AS number and IP addresses Route filtering by remote ISPs and how to avoid this Configuring the initial BGP setup

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Balancing the available incoming or outgoing traffic over the available connections
Securing and troubleshooting BGP
BGP in larger networks: interaction with internal routing protocols, scalability issues
BGP in Internet Service Provider networks
The book is filled with numerous

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configuration examples with more complex case studies at the end of the book to strengthen your understanding. BGP is for anyone interested in creating reliable connectivity to the Internet. An Essential Guide to Understanding and Implementing IP Routing Protocols Cisco's authoritative single-source guide

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to IP routing protocols for enterprise and service provider environments Service providers and large enterprises are converging on a common IP infrastructure that supports rapid deployment of high-value services. Demand is soaring for highly skilled IP network engineers who can implement

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and run these infrastructures. Now, one source combines reliable knowledge about contemporary IP routing protocols and expert hands-on guidance for using them with Cisco IOS, IOS XE, and IOS XR operating systems. After concisely reviewing the basics, three Cisco experts fully explain static routing, EIGRP,

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OSPF, IS-IS, and BGP routing protocols. Next, they introduce advanced routing with policies and redistribution, sophisticated BGP-based traffic engineering, and multicast. They present comprehensive coverage of IPv6, from its multicast implementation to its completely revamped address structure.

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Finally, they discuss advanced high availability techniques, including fast routing convergence. IP Routing on Cisco IOS, IOS XE, and IOS XR presents each protocol conceptually, with intuitive illustrations, realistic configurations, and appropriate output. To help IOS users master IOS XE and IOS XR, differences

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in operating systems are explicitly identified, and side-by-side feature command references are presented. All content fully aligns with Learning@Cisco, providing efficient self-study for multiple Cisco Career Certifications, including CCNA®/CCNP®/CCIE® Service

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Provider, CCIE Routing & Switching, Cisco IOS XR Specialist Certification, and the routing components of several additional Cisco Certifications. Brad Edgeworth, CCIE No. 31574 (R&S & SP) has been with Cisco since 2011 as Systems Engineer and Technical Leader. Formerly a network architect and

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consultant for various Fortune® 500 companies, his 18 years of IT experience includes extensive architectural and operational work in enterprise and service provider environments. He is a Cisco Live distinguished speaker presenting on IOS XR. Aaron Foss, CCIE No. 18761 (R&S & SP), a High

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Touch Engineer with the Cisco Focused Technical Support (FTS) organization, works with large service providers to troubleshoot MPLS, QoS, and IP routing issues. He has more than 15 years of experience designing, deploying, and troubleshooting IP networks. Ramiro Garza Rios, CCIE No. 15469 (R&S, SP,

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and Security), Senior Network Consulting Engineer with Cisco Advanced Services, plans, designs, implements, and optimizes next-generation service provider networks. Before joining Cisco in 2005, he was Network Consulting and Presales Engineer for a Cisco Gold Partner in

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Mexico, where he planned and deployed both enterprise and service provider networks. Foreword by Norm Dunn, Senior Product Manager, Learning@Cisco Global Product Management, Service Provider Portfolio Understand how IOS®, IOS XE, and IOS XR operating systems compare Master

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organizing routing domains, path selection, and optimization Compare IS-IS with OSPF, and implement advanced IS-IS multilevel routing, optimization, and path selection Make the most of BGP and route manipulation, including IOS/IOS XE route maps and IOS XR's highly scalable Route Policy Language

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Switching v5.0 Official Cert Guide, Volume 2, Fifth Edition from Cisco Press enables you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Expert instructors Narbik Kocharians and Terry Vinson share preparation hints and test-taking tips, helping you identify areas of

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weakness and improve both your conceptual knowledge and hands-on skills. This second of two volumes covers IP BGP routing, quality of service (QoS), wide area networks, IP multicast, network security, and Multiprotocol Label Switching (MPLS) topics. This complete study package includes --A test-

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IP Routing on Cisco IOS, IOS XE, and

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Cisco LAN Switching (CCIE
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In this book, a leading expert on Cisco routing offers in-depth coverage of four key intra-domain protocols -- RIP, IGRP, OSPF, and EIGRP.

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Unlike other books on Cisco protocols, Alex Zinin shows you exactly what's happening inside your routers when you use these protocols -- so you can maximize your control over them, and leverage their full power. Cisco IP Routing

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demystifies even the most complex internals of Cisco IP routing with clear explanations, extensive visuals, and many real-world examples, configurations, and network designs. The heart of the book is its coverage of

dynamic routing, starting with theory and then moving to the practical details of effective configuration. Alex Zinin also presents in-depth coverage of controlling routing by altering update flow, redistribution, and

policy routing. For all network administrators, other Cisco networking professionals, and anyone preparing for Cisco's top-of-the-line CCIE exam. Best-practice QoS designs for protecting voice, video, and critical data while mitigating

network denial-of-service attacks Understand the service-level requirements of voice, video, and data applications Examine strategic QoS best practices, including Scavenger-class QoS tactics for DoS/worm

***mitigation Learn about QoS
tools and the various
interdependencies and
caveats of these tools that
can impact design
considerations Learn how to
protect voice, video, and data
traffic using various QoS***

***mechanisms Evaluate design
recommendations for
protecting voice, video, and
multiple classes of data while
mitigating DoS/worm attacks
for the following network
infrastructure architectures:
campus LAN, private WAN,***

***MPLS VPN, and IPsec VPN
Quality of Service (QoS) has
already proven itself as the
enabling technology for the
convergence of voice, video,
and data networks. As
business needs evolve, so do
the demands for 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-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 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 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 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 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 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-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 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 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 perspectives. Additionally, IPSec VPN QoS

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SOHO wireless access point design and configuration Introduction to IPv6 with configuration examples Telecom technologies in the data-networking world, including T1, DS3, frame relay, and MPLS Security, firewall theory, and configuration, as well as ACL and authentication Quality of Service (QoS),

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*with an emphasis on low-latency queuing
(LLQ) IP address allocation, Network
Time Protocol (NTP), and device failures
Anatomy of an Internet Routing Protocol
TCP/IP Illustrated, Volume 1
CCIE Routing and Switching Practice
Labs
Enhanced IP Services for Cisco Networks*

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***Bridging the Gap Between CCNP and
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*The definitive guide to designing and
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networks Clear explanations of the
concepts and underlying mechanisms
of IP multicasting, from the
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techniques Concepts and techniques are reinforced through real-world network examples, each clearly illustrated in a step-by-step manner with detailed drawings Detailed coverage of PIM State Rules that govern Cisco router behavior In-depth information on IP multicast

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*addressing, distribution trees, and
multicast routing protocols
Discussions of the common
multimedia applications and how to
deploy them Developing IP Multicast
Networks, Volume I, covers an area
of networking that is rapidly being
deployed in many enterprise and*

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service provider networks to support applications such as audio and videoconferencing, distance learning, and data replication. The concepts used in IP multicasting are unlike any other network protocol, making this book a critical tool for networking professionals who are

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implementing this technology. This book provides a solid foundation of basic IP multicast concepts, as well as the information needed to actually design and deploy IP multicast networks. Using examples of common network topologies, author Beau Williamson discusses the issues

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that network engineers face when trying to manage traffic flow. Developing IP Multicast Networks, Volume I, includes an in-depth discussion of the PIM protocol used in Cisco routers and detailed coverage of the rules that control the creation and maintenance of Cisco

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mroute state entries. The result is a comprehensive guide to the development and deployment of IP multicast networks using Cisco routers and switches.

Intended for organisations needing to build an efficient and reliable enterprise network linked to the

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Internet, this second edition explains the current Internet architecture and shows how to evaluate service providers dealing with connection issues.

*The Protocols
Routing TCP/IP, Volume II (CCIE
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*Everything You Need to Know That
Wasn't on the CCNA Exam
Routing TCP/IP
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