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*Routing Tcp Ip
Volume 1 2nd
Edition*

“For an engineer determined to refine and secure Internet operation or to explore alternative solutions to persistent problems, the insights provided by this

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book will be invaluable." —Vint Cerf, Internet pioneer TCP/IP Illustrated, Volume 1, Second Edition, is a detailed and visual guide to today's TCP/IP protocol suite. Fully updated for the newest innovations, it demonstrates each protocol in action

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through realistic examples from modern Linux, Windows, and Mac OS environments. There's no better way to discover why TCP/IP works as it does, how it reacts to common conditions, and how to apply it in your own applications and networks.

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Building on the late W. Richard Stevens' classic first edition, author Kevin R. Fall adds his cutting-edge experience as a leader in TCP/IP protocol research, updating the book to fully reflect the latest protocols and best practices. He first introduces TCP/IP's core goals

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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

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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,

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broadcasting, 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. Finally, he

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introduces the basics of security and cryptography, and illuminates the crucial modern protocols for protecting security and privacy, including EAP, IPsec, TLS, DNSSEC, and DKIM. Whatever your TCP/IP experience, this book will help

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you gain a deeper,
more intuitive
understanding of
the entire protocol
suite so you can
build better
applications and run
more reliable,
efficient networks.
An Essential Guide
to Understanding
and Implementing IP
Routing Protocols
Cisco's

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authoritative single-source guide 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-

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them with Cisco IOS, IOS XE, and IOS XR operating systems. After concisely reviewing the basics, three Cisco experts fully explain static routing, EIGRP, OSPF, IS-IS, and BGP routing protocols. Next, they introduce advanced routing with policies

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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. Finally, they discuss

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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

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configurations, and appropriate output. To help IOS users master IOS XE and IOS XR, differences in operating systems are explicitly identified, and side-by-side feature command references are presented. All content fully aligns with

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the routing

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components of
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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 consultant for
various Fortune®

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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.

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18761 (R&S & SP), a High 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,

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deploying, and troubleshooting IP networks. Ramiro Garza Rios, CCIE No. 15469 (R&S, SP, and Security), Senior Network Consulting Engineer with Cisco Advanced Services, plans, designs, implements, and optimizes next-generation service

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provider networks. Before joining Cisco in 2005, he was Network Consulting and Presales Engineer for a Cisco Gold Partner in Mexico, where he planned and deployed both enterprise and service provider networks. Foreword by Norm Dunn,

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efficient multicast
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IPv6 environments
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improve network
availability and

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Volume II

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Internet Protocol

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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 the

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Internet. Topics covered include: OSBF virtual links, NBMA (nonbroadcast multi-access) network segments, interactions with other routing protocols, and protocol extensions.

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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. Unlike other books on Cisco protocols, Alex Zinin shows you exactly what's happening inside your routers

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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
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Zinin also presents in-
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how to use a BGP
core in a large-scale

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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 ”

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with the latest routing

protocol security best

practices Understand

the various techniques

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used for carrying routing information through a VPN
Optimal Routing Design provides the tools and techniques, learned through years of experience with network design and deployment, to build a large-scale or scalable IP-routed network.
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Routing Design leverages the authors ' extensive experience with thousands of customer cases and network designs. Boiling down years of experience into best practices for building scalable networks, this book presents valuable information on the

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most common problems network operators face when seeking to turn best effort IP networks into networks that can support Public Switched Telephone Network (PSTN)-type availability and reliability. Beginning with an overview of design fundamentals,

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the authors discuss the tradeoffs between various competing points of 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

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around real-world problems. The 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

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covers advanced topics in network design, 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;

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include a checklist of questions and 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

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to switch between 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

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network architecture
for these converged
environments. ”

—John Cavanaugh,
Distinguished Services
Engineer, Cisco
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concise guide
dissects several
of these
protocols to
explain their
structure and***

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operation. This isn't a book on packet theory. Author Bruce Hartpence built topologies in a lab as he wrote this guide, and each chapter includes several packet captures. You'll learn about

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**protocol
classification,
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topologies, and
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guide covers:
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data while
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network denial-
of-service
attacks
Understand the
service-level
requirements of***

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applications
Examine
strategic QoS
best practices,
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Scavenger-class
QoS tactics for
DoS/worm
mitigation
Learn about
QoS tools and***

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the various interdependencies and caveats of these tools that can impact design considerations
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recommendations for
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voice, video,
and multiple
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while
mitigating
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attacks for the
following
network***

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***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***

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***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***

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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
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is a detailed
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solutions to
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business needs.
This book goes
beyond
discussing
available QoS***

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***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,***

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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

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***cover the
various QoS
features and
tools currently
available and
comments on
their evolution
and direction.
The QoS
requirements of
voice,
interactive and
streaming***

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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

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***design
principles are
introduced to
show how QoS
mechanisms
can be
strategically
deployed end-
to-end to
address
application
requirements
while***

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***mitigating
network
attacks. The
next section
focuses on how
these strategic
design
principles are
applied to
campus LAN
QoS design.
Considerations
and detailed***

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

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***the following
section, where
WAN-specific
considerations
and detailed
QoS designs are
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ATM, ATM-to-FR
Service
Interworking,
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Branch-specific designs include Cisco® SAFE recommendations for using Network-Based Application Recognition (NBAR) for known-worm identification and policing.

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***The final
section covers
Layer 3 VPN
QoS design-for
both MPLS and
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businesses are
migrating to
VPNs to meet
their wide-area
networking
needs at lower
costs,***

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***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***

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provider's

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teleworker

contexts.

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review makes it
invaluable for
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on Cisco IOS,
the book
illuminates
concepts that***

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virtually all
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network
scalability ·
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environments
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environments ·
Avoid policy
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other mistakes
that damage***

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