IP Switching and Routing Essentials: Understanding RIP, OSPF, BGP, MPLS, CR-LDP, and RSVP-TE

By Stephen A. Thomas

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The only complete source of information on IP switching and routing technologies

A master at distilling complex need-to-know networking technologies into a clear, to-the-point narrative, proven author Stephen Thomas now tackles IP switching and routing--the backbone of all Internet communications. He presents all the relevant technologies in the context of real-world applications, offering concise explanations and over 150 illustrations that make complex topics easy to understand. An invaluable resource for network managers and service provider professionals, this book delivers complete coverage of routing technologies--distance vector, link state, and path vector--as well as the full roster of Internet standard routing protocols: Routing Information Protocol (RIP), Border Gateway Protocol (BGP), and Open Shortest Path First (OSPF). The text then documents advances that enable Multi Protocol Label Switching (MPLS), including the MPLS architecture, its interaction with standards routing protocols, Constraint-Based Label Distribution Protocol (CR-LDP), and traffic engineering extensions to the Resource Reservation Protocol (RSVP-TE).

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Editorial Review

From the Back Cover
The most complete source of information on IP switching and routing technologies

The job of delivering data efficiently over the Internet can be very complex and requires a sound understanding of the network routing protocols. This invaluable resource delves into the heart of the Internet, uncovering how this network delivers data from one location to another. Stephen Thomas explores all of the relevant technologies behind IP switching and routing, offering concise explanations and nearly 300 illustrations to help make the material easier to understand.

The book begins with an introduction to the basic concepts that are critical to the Internet and takes an in-depth look at the Internet Protocol (IP) and the UDP and TCP transport protocols, including recent advances such as differentiated services forwarding and explicit congestion notification. This is followed by an examination of the Internet's three standard routing protocols: Routing Information Protocol (RIP), Border Gateway Protocol (BGP), and Open Shortest Path First (OSPF). Thomas also provides detailed coverage on how these protocols are actually used in real networks, as well as their syntax and semantics. He then shifts to IP switching, describing the latest advances that enable Multi Protocol Label Switching (MPLS); coverage includes label switching over ATM, frame relay, and generic networks, interaction with standard routing protocols, Constraint-Based Label Distribution Protocol (CR-LDP), and the Resource Reservation Protocol with Traffic Engineering extensions (RSVP-TE).

An essential manual for network managers and service provider professionals, this book:
* Delivers complete coverage of routing technologies including distance vector, link state, and path vector
* Discusses the full roster of Internet standard routing protocols
* Provides complete coverage of label switching and MPLS, including network performance gains and traffic engineering applications
* Examines the two common alternatives for exchanging label information: LDP and RSVP-TE

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About the Author
STEPHEN A. THOMAS is Chief Architect for Wave7 Optics, a leading-edge developer of IP-based optical networks for the delivery of video, voice, and data services in business and residential applications. He is also the author of IPng and the TCP/IP Protocols and SSL and TLS Essentials (both published by Wiley).

Users Review

From reader reviews:

Chad Wright:

Precisely why? Because this IP Switching and Routing Essentials: Understanding RIP, OSPF, BGP, MPLS,

CR-LDP, and RSVP-TE is an unordinary book that the inside of the reserve waiting for you to snap that but latter it will surprise you with the secret it inside. Reading this book alongside it was fantastic author who have write the book in such amazing way makes the content inside easier to understand, entertaining way but still convey the meaning fully. So , it is good for you for not hesitating having this anymore or you going to regret it. This unique book will give you a lot of gains than the other book have such as help improving your ability and your critical thinking approach. So , still want to delay having that book? If I ended up you I will go to the book store hurriedly.

Melanie Fox:

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