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Autore	Lopez, Robert S. <1910-1986>
Titolo	La révolution commerciale dans l' Europe medievale / Roberto S. Lopez ; traduction de Jean-Pierre Delumeau
Pubbl/distr/stampa	Paris : Aubier Montaigne, 1974
Descrizione fisica	252 p. ; 19 cm
Collana	Collection historique
Disciplina	380.10902
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Titolo	IP over WDM [[electronic resource]] : building the next-generation optical internet / / edited by Sudhir Dixit
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2003
ISBN	1-280-34489-X 9786610344895 0-470-30307-7 0-471-47835-0 0-471-47834-2
Descrizione fisica	1 online resource (579 p.)
Altri autori (Persone)	DixitSudhir
Disciplina	621.382/7 621.3827
Soggetti	Wavelength division multiplexing TCP/IP (Computer network protocol) Optical communications Electronic books.
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	IP OVER WDM; CONTENTS; Contributors; Preface; ACKNOWLEDGMENTS; 1 IP-over-WDM Convergence; 1.1 Introduction; 1.2 Why IP and Why WDM?; 1.3 What Does WDM Offer?; 1.4 Capacity, Interface Speeds, and Protocols; 1.5 Why IP over WDM?; 1.6 Book Outline; 1.7 Concluding Remarks; 2 Protocol Design Concepts, TCP/IP, and the Network Layer; 2.1 Introduction; 2.1.1 Protocols and Layering; 2.1.2 Internet Protocol Design: The End-to-End Principle; 2.2 Transport Layer and TCP; 2.2.1 Service Models at the Transport Layer; 2.2.2 UDP and Connectionless Transport; 2.2.3 TCP and Connection-Oriented Transport 2.3 Network Layer2.3.1 Network Service Models; 2.3.2 Internet Protocol: Forwarding Paradigm; 2.3.3 Internet Protocol: Packet Format, Addressing, and Fragmentation/Reassembly; 2.3.4 Routing in the Internet; 2.4 Asynchronous Transfer Mode; 2.4.1 ATM Basics; 2.4.2 IP over ATM; 2.5 IP Switching; 2.5.1 Connectionless Services over ATM; 2.5.2 IP Switching Architecture; 2.6 QoS, Integrated Services, and Differentiated Services; 2.6.1 Integrated Services and RSVP; 2.6.2 Differentiated Services; 2.7 Multiprotocol Label Switching; 2.7.1 Labels; 2.7.2 Route Selection; 2.8 Summary; References 3 Optical Enabling Technologies for WDM Systems3.1 Introduction; 3.2 Transmission Limitations in Optical Fiber; 3.2.1 Propagation in Optical Single-Mode Fiber; 3.2.2 Chromatic Dispersion; 3.2.3 Polarization-Mode Dispersion; 3.2.4 Nonlinear Optical Effects; 3.2.5 Types of Single-Mode Optical Fiber; 3.3 Key Technologies for WDM Systems; 3.3.1 WDM Transmitters; 3.3.2 WDM Filter Components; 3.3.3 Erbium-Doped Fiber Amplifiers; 3.3.4 Dispersion Compensation; 3.3.5 Variable Optical Attenuators; 3.3.6 Optical Switching Devices; 3.3.7 Wavelength Converters; 3.4 Development of WDM Systems; 3.5 Summary References4 Electro-optic and Wavelength Conversion; 4.1 Introduction; 4.2 Enabling Technologies; 4.2.1 Wavelength-Converter Design; 4.2.2 Wavelength-Convertible Switch Design; 4.3 Network Design, Control, and Management Issues; 4.3.1 Network Design; 4.3.2 Network Control; 4.3.3 Network Management; 4.4 Benefit Analysis; 4.4.1 Analytical Models; 4.4.2 Related Work on Gain Characterization; 4.5 Summary; References; 5 Contention Resolution in Optical Packet Switching; 5.1 Introduction; 5.2 Contention Resolution in Wavelength, Time, and Space Domains; 5.2.1 Optical Buffering 5.2.2 Wavelength Conversion5.2.3 Space Deflection; 5.2.4 Combination Schemes; 5.2.5 Simulation Experiments and Performance Comparison; 5.3 Priority-Based Routing; 5.3.1 Network Architecture and Routing Policies; 5.3.2 Illustrative Results; 5.4 Slotted versus Unslotted Networks; 5.4.1 Network Architecture and Routing Policies; 5.4.2 Illustrative Results and Discussion; 5.5 Hybrid Contention Resolution for Optical Packet Switching; 5.5.1 Node Architecture; 5.5.2 Simulation Configuration; 5.5.3 Illustrative Results; 5.6 TCP Performance with Optical Packet Switching; 5.6.1 Node Architecture 5.6.2 Simulation Configuration and Numerical Results
Sommario/riassunto	The key technology to delivering maximum bandwidth over networks is Dense Wave-length Division Multiplexing (DWDM)Describes in detail how DWDM works and how to implement a range of transmission protocolsCovers device considerations, the pros and cons of various network layer protocols, and quality of service (QoS) issuesThe authors are leading experts in this field and provide real-world implementation

examplesFirst book to describe the interplay between the physical and IP (Internet Protocol) layers in optical networks