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The first edition of Optical Networks: A Practical Perspective accumulated lots of happy readers, largely because the authors took care to explain the physical phenomena that allow light to carry information as well as the design principles that characterise good optical networks, particularly wavelength division multiplexing (WDM). Very little was assumed, and even the most complicated ...

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Optical Networks: A Practical Perspective eBook:
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This practical guide, written by two of the principal architects of wavelength division multiplexing, explores the driving need for all-optical networks, the economic trade-offs involved, and their fundamental capabilities and design.

Optical Networks: A Practical Perspective by Rajiv
Ramaswami

Rajiv Ramaswami worked on optical networks for

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fifteen years from research to commercial deployment and is currently a vice president at Cisco. He is an IEEE Fellow, a Distinguished Alumnus of IIT Madras, and received a PhD from the University of California, Berkeley.

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This fully updated and expanded second edition of Optical Networks: A Practical Perspective succeeds the first as the authoritative source for information on optical networking technologies and techniques. Written by two of the field's most respected individuals, it

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covers componentry and transmission in detail but also emphasizes the practical networking issues that affect organizations as ...

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The components used in modern optical networks include couplers, lasers, photodetectors, optical amplifiers, optical switches, and filters and multiplexers. Couplers are simple components used to combine or split optical signals. Filters and multiplexers are used to multiplex and demultiplex signals at different wavelengths in WDM systems.

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Rajiv Ramaswami worked on optical networks for fifteen years from research to commercial deployment and is currently a vice president at Cisco. He is an IEEE Fellow, a Distinguished Alumnus of IIT...

Optical Networks: A Practical Perspective - Rajiv ...

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Optical Networks (2nd ed.) by Ramaswami, Rajiv
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1 January 2009 by Ramaswami (Author) 4.2 out of 5

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Pris: 589 kr. Inbunden, 2009. Skickas inom 10-15 vardagar. Köp Optical Networks: A Practical Perspective 3rd Edition av Rajiv Ramaswami, Kumar Sivarajan, Galen Sasaki på Bokus.com.

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The third edition of Optical Networks continues to be the authoritative source for information on optical networking technologies and techniques. Componentry and transmission are discussed in detail with emphasis on practical networking issues that affect organizations as they evaluate, deploy, or develop optical networks. New updates in this rapidly changing technology are introduced. These updates include sections on

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pluggable optical transceivers, ROADM (reconfigurable optical add/drop multiplexer), and electronic dispersion compensation. Current standards updates such as G.709 OTN, as well as, those for GPON, EPON, and BPON are featured. Expanded discussions on multimode fiber with additional sections on photonic crystal and plastic fibers, as well as expanded coverage of Ethernet and Multiprotocol Label Switching (MPLS). This book clearly explains all the hard-to-find information on architecture, control and management. It serves as your guide at every step of optical networking-- from planning to implementation through ongoing maintenance. This book is your key to thoroughly understanding practical optical networks. In-

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depth coverage of optimization, design, and management of the components and transmission of optical networks. Filled with examples, figures, and problem sets to aid in development of dependable, speedy networks. Focuses on practical, networking-specific issues: everything you need to know to implement currently available optical solutions.

This fully updated and expanded second edition of *Optical Networks: A Practical Perspective* succeeds the first as the authoritative source for information on optical networking technologies and techniques. Written by two of the field's most respected individuals, it covers componentry and transmission in detail but also

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emphasizes the practical networking issues that affect organizations as they evaluate, deploy, or develop optical solutions. This book captures all the hard-to-find information on architecture, control and management, and other communications topics that will affect you every step of the way-from planning to decision-making to implementation to ongoing maintenance. If your goal is to thoroughly understand practical optical networks, this book should be your first and foremost resource. * Focuses on practical, networking-specific issues: everything you need to know to implement currently available optical solutions. * Provides the transmission and component details you need to understand and assess competing technologies.

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* Offers updated and expanded coverage of propagation, lasers and optical switching technology, network design, transmission design, IP over WDM, wavelength routing, optical standards, and more.

Introduction to optical networks -- Propagation of signals in optical fiber -- Components -- Modulation and demodulation -- Transmission system engineering -- Client layers of the optical layer -- WDM network elements -- WDM network design -- Control and management -- Network survivability -- Access networks -- Photonic packet switching -- Deployment considerations.

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This book explains how optical communication systems are used to provide high-speed communication connections. You will learn basic optical principles including how to create and detect light signals, reflection and refraction, basic lightwave propagation and optical signal processing. Provided is an overview of the components and basic operation of optical systems including synchronous optical network (SONET), synchronous digital hierarchy (SDH), fiber distributed data interface (FDDI), passive optical networks (PON) and dense wave division multiplexing (DWDM). The common types of network equipment such as ONU, ADM, and optical switches are described. Discover how optical transmitters and modulators

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operate including light emitting diodes (LEDs) and LASERS. The differences between these light sources are explained along with how some types of light sources are better suited to send information over short and long distances. Fiber optic transmission is described including how single mode and multimode optical fibers operate along with their transmission characteristics. You will learn how modal dispersion, material dispersion and cable bending affects the performance and ability of fiber cable to transfer light signals. The methods and devices used to couple light signals into and out of fiber cables are discussed. You will discover how photodetection and optical receivers convert optical signals into electrical signals along with

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the different types of photodetectors and their ability (sensitivity) to light signals. Explained are the basics of how optical demodulation and demultiplexing are used to receive, separate multiple channels of optical signals. An introduction to testing in optical systems is included. The basic methods of optical fiber testing including continuity testing and measuring optical loss is included. Discover how to use an optical time domain reflectometer (OTDR) to identify the specific locations of breaks or distortions in fiber cable. Learn the basic steps for fiber optic link and system acceptance testing. Troubleshooting processes and tips are included to help you diagnose and repair equipment and link failures along with how to maintain maintenance records.

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The fourth edition of Optical Networks continues the tradition of being the authoritative source on optical networking technologies and techniques. Uniquely emphasizing practical networking issues that affect organizations as they evaluate, deploy, or develop optical networks, Optical Networks serve as your guide for every step of optical networking--from planning to implementation through ongoing maintenance. Optical communications has undergone a sea change since the 3rd edition was published. The advent and rapid commercialization of high-speed coherent optics with advanced modulation formats completely changed the way network architecture and link design are conceived

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and implemented. All of these and more are now discussed in this 4th edition, offering a comprehensive view of a state-of-the-art optical network. Changes to this edition include: Legacy protocols and systems that are being phased out are de-emphasized, and new trends, such as data-centric networks are added to bring current perspectives on optical communication and networks. Addresses the most recent trends especially in coherent systems, new fiber types, and Ethernet protocols, ROADMs, client interfaces, and coherent optics. Explores the significant advances in electronic chips, line systems, transmissions systems, client/short reach optics, subsea networks, and network design and architecture. Covers advanced topics such

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as CDC ROADM, hybrid amplifiers, and 400G. Provides a practical perspective on optical networks written by experts with significant real-world industry experience. Every chapter updated with new descriptions and technological developments. Provides an excellent tool as both a reference for practitioners and textbook for students. Filled with examples, figures, and problem sets to aid in development of dependable, speedy networks.

This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable

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the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies

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to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.

In recent years, with the rapid growth of the Internet, the bandwidth demand for data traffic is exploding. Optical networks based on wavelength-division multiplexing (WDM) technology offer the promise to satisfy the bandwidth requirements of the Internet infrastructure. With WDM technology, signals are carried simultaneously on multiple wavelengths on a

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single fiber. WDM provides a practical approach of resolving the mismatch between the fiber capacity and the peak electronic processing speed. Mesh-based WDM networks have recently attracted much research and development interest since the Internet topology is meshed in nature, and more importantly, mesh-based WDM networks are flexible with respect to routing and survivability. This book examines the management and survivability issues of mesh-based WDM networks and proposes new WDM network protocols and algorithms that could make telecommunication networks more efficient. Wavelength-routing has been one of the most important technologies to employ WDM in backbone networks. In wavelength-routed WDM networks, optical

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channels, which are referred to as lightpaths, are set up between WDM terminals. Most chapters of this book are focused on various issues related to wavelength-routed networks, namely, routing and wavelength-assignment, control and management, fault management, and wavelength-converter placement. This book also presents an all-optical packet-switched network architecture based on the concept of photonic slot routing. The audience for this book are network designers and planners, research and development engineers active in the field of telecommunications, and students of optical networking at the graduate or senior undergraduate levels.

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This book takes a pragmatic approach to deploying state-of-the-art optical networking equipment in metro-core and backbone networks. The book is oriented towards practical implementation of optical network design. Algorithms and methodologies related to routing, regeneration, wavelength assignment, sub rate-traffic grooming and protection are presented, with an emphasis on optical-bypass-enabled (or all-optical) networks. The author has emphasized the economics of optical networking, with a full chapter of economic studies that offer guidelines as to when and how optical-bypass technology should be deployed. This new edition contains: new chapter on dynamic optical networking and a new chapter on flexible/elastic optical

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networks. Expanded coverage of new physical-layer technology (e.g., coherent detection) and its impact on network design and enhanced coverage of ROADM architectures and properties, including colorless, directionless, contentionless and gridless. Covers ' hot ' topics, such as Software Defined Networking and energy efficiency, algorithmic advancements and techniques, especially in the area of impairment-aware routing and wavelength assignment. Provides more illustrative examples of concepts are provided, using three reference networks (the topology files for the networks are provided on a web site, for further studies by the reader). Also exercises have been added at the end of the chapters to enhance the book ' s utility

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as a course textbook.

Broadband Cable Access Networks focuses on broadband distribution and systems architecture and concentrates on practical concepts that will allow the reader to do their own design, improvement, and troubleshooting work. The objective is to enhance the skill sets of a large population that designs and builds broadband cable plants, as well as those maintaining and troubleshooting it. A large cross-section of technical personnel who need to learn these skills design, maintain, and service HFC systems from signal creation through transmission to reception and processing at the customer end point. In addition,

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data/voice and video specialists need to master and reference the basics of HFC design and distribution before contending with the intricacies of their own unique services. This book serves as an essential reference to all cable engineers—those who specifically design and maintain the HFC distribution plant as well as those primarily concerned with data/voice technology as well as video technology. Concentrates on practical concepts that will allow the user to do his own design, improvement, and trouble-shooting work. Prepares cable engineers and technicians to work with assurance as they face the latest developments and future directions. Concise and tightly focused, allowing readers to easily find answers to questions about an

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idea or concept they are developing in this area.

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