



# WDM Technologies

## *Optical Networks*

ACHYUT K. DUTTA  
NILOY K. DUTTA  
MASAHIKO FUJIWARA

# Wdm Technologies

**Achyut K. Dutta**

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**WDM Technologies: Optical Networks** Achyut K. Dutta,Niloy K. Dutta,Masahiko Fujiwara,2004-09-04 Internet information which is doubling every six months travels through optical fibers Today optical fibers are being installed where a single fiber has the ability to carry information as much as 200 times faster than was possible just five years ago This revolutionary capability is being achieved with technology known as wavelength division multiplexing WDM WDM technology relies on the fact that optical fibers can carry many wavelengths of light simultaneously without interaction between each wavelength Thus a single fiber can carry many separate wavelength signals or channels simultaneously The communications industry is at the onset of new expansion of WDM technology necessary to meet the new demand for bandwidth WDM Technologies Optical Networks deals with the Networks facet of this field present and future Allows engineers working in optical communications from systems to components to understand the principles and mechanics of each key component they deal with for optical system design Provides an excellent resource for engineers and researchers engaged in all aspects of fiber optic communications such as optoelectronics equipment system design and manufacturing Provides comprehensive coverage of key concepts in optical networks and their application in commercial systems

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**WDM Technologies: Passive Optical Components** Achyut K. Dutta,Niloy K. Dutta,Masahiko Fujiwara,2003-06-04 The communications industry is at the onset of new expansion of WDM technology necessary to meet the new demand for bandwidth This is the second of a four reference books that will cover this technology comprehensively with all of the major topics covered by a separate volumes i e active components passive components systems and networks This book is the first which covers all key passive optical components required for current and next generation optical communication systems World renowned authors who are pioneers in their research area have written the chapters in their area of expertise The book highlights not only the principle of operation and characteristics of the passive optical components but also provides an in depth account of the state of the art system applications Helps the reader to choose the right device for a given system application Provides the reader with insight and understanding for key passive optical components frequently being to be used in the optical communication systems essential building blocks of today s next generation fiber optic networks Allows engineers working in different optical communication areas i e from system to component to understand the principle and mechanics of each key component they deal with for optical system design Covers Planar lightwave circuit PLC based router different optical switches technologies based on MEMS thermo optic and electro optic and different optical amplifier technologies based on semiconductor optical amplifier EDFA and raman

amplifier Highlights the operating principle of each component system applications and also future opportunities **WDM**

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Technologies Active Optical Components is an excellent resource for engineers and researchers engaged in all aspects of fiber optics communication such as optoelectronics equipment system design and manufacturing The book is also a resource for graduate students and scholars interested in these rapidly growing fields Provides the reader with insight and understanding for key active optical components frequently being to be used in the optical communication systems essential building blocks of today s next generation fiber optic networks Allows engineers working in optical communication area from system to component to understand the principle and mechanics of each key component they deal with for optical system design Covers different laser diodes as transmitter and pumping sources different modulators and different photodetectors

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information which is doubling every six months travels through optical fibers Today optical fibers are being installed where a single fiber has the ability to carry information as much as 200 times faster than was possible just five years ago This revolutionary capability is being achieved with technology known as wavelength division multiplexing **WDM** **WDM** technology relies on the fact that optical fibers can carry many wavelengths of light simultaneously without interaction between each wavelength Thus a single fiber can carry many separate wavelength signals or channels simultaneously The communications industry is at the onset of new expansion of **WDM** technology necessary to meet the new demand for bandwidth **WDM** Technologies Optical Networks deals with the Networks facet of this field present and future Allows engineers working in optical communications from systems to components to understand the principles and mechanics of each key component they deal with for optical system design Provides an excellent resource for engineers and researchers engaged in all aspects of fiber optic communications such as optoelectronics equipment system design and manufacturing Provides comprehensive coverage of key concepts in optical networks and their application in commercial systems **WDM Technologies** Achyut K. Dutta,2005-05-15

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The essential guide to the state of the art in WDM and its vast networking potential As a result of its huge transmission capacity and countless other advantages fiber optics has fostered a bandwidth revolution addressing the constantly growing demand for increased bandwidth Within this burgeoning area Wavelength Division Multiplexing WDM has emerged as a breakthrough technology for exploiting the capacity of optical fibers Today WDM is deployed by many network providers for point to point transmission but there is strong momentum to develop it as a full fledged networking technology in its own right The telecommunications industry network service providers and research communities worldwide are paying close attention Optical WDM Networks presents an easy to follow introduction to basic concepts key issues effective solutions and state of the art technologies for wavelength routed WDM networks Responding to the need for resources focused on the networking potential of WDM the book is organized in terms of the most important networking aspects such as Network control architecture Routing and wavelength assignment Virtual topology design and reconfiguration Distributed lightpath control and management Optical layer protection and restoration IP over WDM Trends for the future in optical networks Each chapter includes examples and problems that illustrate and offer practical application of concepts as well as extensive references for further reading This is an essential resource for professionals and students in electrical engineering computer engineering and computer science as well as network engineers designers planners operators and managers who seek a backbone of knowledge in optical networks

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guide provides practicing engineers students and researchers with a systematic up to date introduction to the fundamental concepts challenges and state of the art developments in WDM optical networks The authors rely extensively on real world examples and draw on the latest research to cover optical network design and provisioning in far greater depth than any other book *Photonic Switching Technology* Hussein T. Mouftah,Jaafar M. H. Elmirghani,1999 Electrical Engineering Photonic Switching Technology Systems and Networks Find out how today's photonic switching technologies can provide a functional advantage in handling the ever increasing data rates and bandwidth requirements placed on telecommunication components systems and networks with this self contained tutorial guide Based on systems currently in use Photonic Switching Technology Systems and Networks will equip practitioners and researchers with a comprehensive understanding of the functionality and versatility provided by photonics technologies used in all optical networks weighed against their costs and limitations The authors feature special coverage of state of the art pilot systems that use photonic switching and multiwavelength techniques such as Monet Lambdanet Cobra and Starnet These systems not only demonstrate the feasibility of optical systems but also the implications of system integration supporting technologies and system economics Photonic Switching Technology brings you a wealth of information on Photonic switches based on the electro optic effect switches based on semiconductor optical amplifiers SOA and optical memory switches Free space optical switching Wavelength division switching including wavelength routing wavelength conversion and WDM packet switching Optical crossconnects

*Optimized Design of WDM Network Architectures* S. Ramamurthy,1998 Optical Transmission Systems and Equipment for WDM Networking ,2005 *WDM and Photonic Networks* D. W. Faulkner,Alan Harmer,2000 Volume 1 WDM and Photonic Networks will focus on recent developments in long haul WDM and photonic networks and will include invited papers from key vendors and technologists A paper on DWDM by Lucent will show how Raman amplification enables the quadrupling of the line rate from OC 192 to OC 768 in a recent 1.6Tb/s experiment MILCOM '97 ,1997

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