

UNIT 7: WDM CONCEPTS AND COMPONENTS

- The technology of combining a number of different independent information carrying wavelengths into the same fiber is known as wavelength division multiplexing or WDM.

Overview of WDM

- With the advent of high quality light sources with extremely narrow spectral emission widths many independent wavelength channels spaced less than a nanometer apart could be placed on the same fiber. For eg. The modulated output of a DFB laser has spectral emission width of less than 10^{-1} nm.
- With such light sources the use of WDM allows a dramatic increase in the capacity of an optical fiber compared to the original simple point to point link that carried only single wavelength.
- Another advantage of WDM is that various optical channels can support different transmission formats.
- Thus, by using separate wavelengths differently formatted signals at any data rate can be sent simultaneously and independently over the same fiber without the need for common signal structure.

Operational principles of WDM

- The implementation of WDM networks requires that a variety of passive and active devices to combine, distribute, isolate and amplify optical power at different wavelengths.
- Passive devices require no external control for their operation. These components are mainly used to split and combine or tap off optical signals.
- Active devices are wavelength dependent and can be controlled electronically or optically, thereby providing a large degree of flexibility. Active WDM components include tunable optical filters, tunable sources and optical amplifiers.

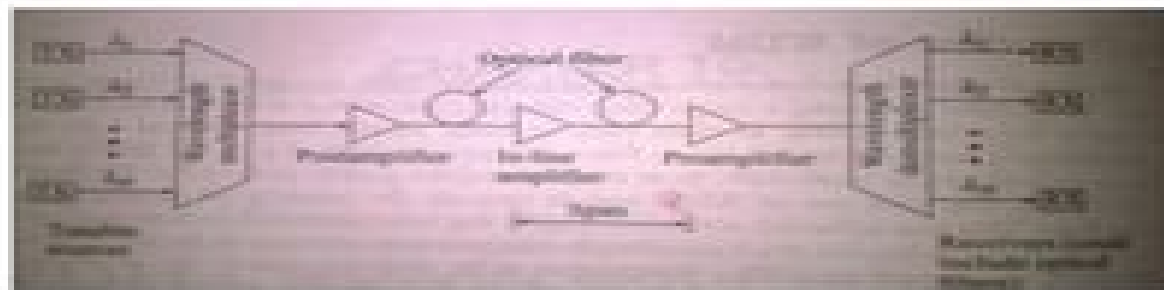


Fig. Implementation of typical WDM link containing various types of optical amplifiers

- Fig. above shows the implementation of passive and active components in a typical WDM link.
- At the transmitting end there are several independently modulated light sources, each emitting signals at a unique wavelength.
- Here a multiplexer is needed to combine these optical outputs into a continuous spectrum of signals and couple them into a single fiber.

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Tingye Li, Ivan P. Kaminow



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TEXTBOOK ON OPTICAL FIBER COMMUNICATION AND ITS APPLICATIONS, THIRD EDITION GUPTA, S.

C.,2018-11-01 The book now in its third edition is thoroughly revised and updated as per the new syllabi of Optical Fiber Communication of various universities The material is well presented and designed for undergraduate and postgraduate students pursuing courses in Electrical Engineering and Electronics and Telecommunication Engineering The book offers a completely accessible and in depth knowledge of the principles and applications of optical fiber communication OFC It deals with materials devices components and systems of OFC The coverage includes key concepts such as properties of light evolution and elements of OFC its benefits along with applications in optical LAN and communication links The attenuation loss of different types dispersion mechanism photon sources LED and lasers detectors PIN and avalanche analog and digital transmitter and receiver systems connectorization OADM and amplifiers are described Built up of long haul OFC links at 8 Mb s and 2 5 Gb s and optical interface are explained with illustrations It also contains solved numerical problems for better understanding of topics KEY FEATURES Includes optical fiber LAN for data centres and industries Provides detail treatment of LED semiconductor lasers Tx and Rx Discusses all optical communications links and optical networks Includes important questions with answers Provides practice papers and model test papers *Optical Fiber Communications* Tingye Li,Ivan P. Kaminow,2002

Essentials of Modern Optical Fiber Communication Reinhold Noé,2010-03-15 This book covers

important aspects of modern optical communication It is intended to serve both students and professionals Consequently a solid coverage of the necessary fundamentals is combined with an in depth discussion of recent relevant research results The book has grown from lecture notes over the years starting 1992 It accompanies my present lectures Optical Communication A Fundamentals B Mode Coupling C Modulation Formats and D Selected Topics at the University of Paderborn Germany I gratefully acknowledge contributions to this book from Dr Timo Pfau Dr David Sandel Dr Sebastian Hoffmann and Mohamed El Darawy Contents Contents 1 Introduction 1 2 Optical Waves in Fibers and Components 3 2 1 Electromagnetic Fundamentals 3 2 1 1 Maxwell s Equations 3 2 1 2 Boundary Conditions 6 2 1 3 Wave Equation 8 2 1 4 Homogeneous Plane Wave in Isotropic Homogeneous Medium 9 2 1 5 Power and Energy 13 2 2 Dielectric Waveguides 18 2 2 1 Dielectric Slab Waveguide 18 2 2 2 Cylindrical Dielectric Waveguide 26 2 3 Polarization 40 2 3 1 Representing States of Polarization 40 2 3 2 Anisotropy Index Ellipsoid 45 2 3 3 Jones Matrices Mller Matrices 52 2 3 4 Monochromatic Polarization Transmission 64 2 3 5 Polarization Mode Dispersion 71 2 4 Linear Electrooptic Effect 80 2 4 1 Phase Modulation 80 2 4 2 Soleil Babinet Compensator 84 2 5 Mode Coupling 88 2 5 1 Mode Orthogonality 88 2 5 2 Mode Coupling Theory **Optical**

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Herbert Venghaus,Norbert Grote,2012-08-29 The book gives an in depth description of the key devices of current and next

generation fibre optic communication networks In particular the book covers devices such as semiconductor lasers optical amplifiers modulators wavelength filters and detectors but the relevant properties of optical fibres as well The presentations include the physical principles underlying the various devices the technologies used for the realization of the different devices typical performance characteristics and limitations and development trends towards more advanced components are also illustrated Thus the scope of the book spans relevant principles state of the art implementations the status of current research and expected future components

Optical Communications Essentials Gerd Keiser,2003-10-21 The most comprehensive introduction to optical communications available anywhere from the author of Optical Fiber Communications the field s leading text Concise illustrated module style chapters quickly bring non specialists up to speed Extensive DWDM Dense Wavelength Division Multiplexing coverage Advanced topics and limited math covered in side bars Free space optical wireless fiber optics Optical Communication R. S. Prasad,

Optical Fiber Communication ,1982 **Optical Fiber Communication** A. Selvarajan,Subrat Kar,T. Srinivas,2003 **FUNDAMENTALS OF OPTICAL FIBRE**

COMMUNICATION M. SATHISH KUMAR,2005-01-01 Optical fibre communication is fast crossing the boundaries of research laboratories and attaining the threshold of real life applicability The book attempts to provide a thorough understanding of the fundamentals of optical fibre communication Organized into seven chapters this book begins with a discussion of planar dielectric waveguide and proceeds to discuss optical fibre and the propagation of light through it It also covers Erbium Doped Fibre Amplifier EDFA semiconductor optical sources and detectors fibre optic communication systems and fibre optic measurements This book is primarily intended as a text for undergraduate students of Electrical Engineering Electronics and Communication Engineering and Telecommunication Engineering The book would also prove to be of immense benefit to postgraduate students of Physics and those preparing for AMIE and AMIETE exams Optical Fiber Communication ,1980

OPTICAL FIBER COMMUNICATION PratibhaD. Kulkarni,2020-02 Optical Fiber Communication Principles And Practice 2ed Senior,2006-02 This Is The Second Edition Of This Highly Successful Book Giving An Introduction To The Fundamentals Problems And Techniques Of Design And Utilisation Of Optical Fibre Systems All The Chapters Have Been Updated And Many Have Been Extended With Extra Sections Including The Most Recent

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