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Seventh Semester B.E. Degree Examination, June/July 2017

## Optical Fiber Communication

Time: 3 hrs.

Max. Marks: 100


Note: Answer FIVE full questions, selecting at least TWO questions from each part.

### PART – A

1.
  - a. Summarize the inherent advantages of optical fiber over conventional copper cables. (06 Marks)
  - b. Describe with neat diagram different types of optical fiber waveguides. Using ray theory, explain the propagation of light inside the fiber. (08 Marks)
  - c. A silica optical fiber with a core diameter large enough to be considered by ray theory analysis has a core refractive index of 1.5. A light ray is incident at the core-cladding interface with a critical angle of  $78.5^\circ$ . Estimate:
    - i) Refractive index of cladding
    - ii) Numerical aperture
    - iii) The acceptance angle in air for the fiber (06 Marks)
2.
  - a. Illustrate the different types of scattering losses in optical fiber with suitable equations. (08 Marks)
  - b. Explain what is meant by the critical bending radius for an optical fiber. Write equation of critical radius of curvature for multimode and single mode fibers. (06 Marks)
  - c. A multimode fiber with a core refractive index of 1.5, a relative refractive index difference of 3% and an operating wavelength of  $0.82 \mu\text{m}$ . Estimate the critical radius of curvature at which large bending losses occur. (06 Marks)
3.
  - a. Draw and explain the cross-sectional view of a typical AlGaAs double heterojunction LED, along with the energy diagram. (08 Marks)
  - b. Sketch and explain the GaAs homojunction injection laser with a Fabry-Perot cavity. (06 Marks)
  - c. A planar LED is fabricated from Gallium Arsenide which has a refractive index of 3.6,
    - i) Calculate the optical power emitted into air as a percentage of the internal optical power for the device when the transmission factor at the crystal-air interface is 0.68.
    - ii) When the optical power generated internally is 50% of the electric power, determine the external power efficiency. (06 Marks)
4.
  - a. With the aid of simple sketches, outline optical fiber coupler types and their functions. (08 Marks)
  - b. Discuss different types of fiber misalignment and the factors which causes the losses due to those misalignment. (06 Marks)
  - c. A single mode fiber has the following parameters:
    - Normalised frequency ( $V$ ) = 2.40
    - Core refractive index ( $n_1$ ) = 1.46
    - Core diameter ( $2a$ ) =  $8 \mu\text{m}$
    - Numerical aperture (NA) = 0.1
    - Normalised spot size ( $w$ ) =  $3.12 \mu\text{m}$ .
 Estimate the total insertion loss of a fiber joint with a lateral misalignment ( $Y$ ) of  $1 \mu\text{m}$  and an angular misalignment ( $\theta$ ) of  $1^\circ$ . (06 Marks)

# Optical Fiber Communication Question Paper

**National Institute of Standards and  
Technology (U.S.)**



## **Optical Fiber Communication Question Paper:**

*Summaries of Papers Presented at the Optical Fiber Communication Conference ...*, 2005      *Optical Fiber Communication Systems with MATLAB® and Simulink® Models, Second Edition* Le Nguyen Binh, 2014-12-01 Carefully structured to instill practical knowledge of fundamental issues *Optical Fiber Communication Systems with MATLAB and Simulink Models* describes the modeling of optically amplified fiber communications systems using MATLAB and Simulink This lecture based book focuses on concepts and interpretation mathematical procedures and engineering applications shedding light on device behavior and dynamics through computer modeling Supplying a deeper understanding of the current and future state of optical systems and networks this Second Edition Reflects the latest developments in optical fiber communications technology Includes new and updated case studies examples end of chapter problems and MATLAB and Simulink models Emphasizes DSP based coherent reception techniques essential to advancement in short and long term optical transmission networks *Optical Fiber Communication Systems with MATLAB and Simulink Models Second Edition* is intended for use in university and professional training courses in the specialized field of optical communications This text should also appeal to students of engineering and science who have already taken courses in electromagnetic theory signal processing and digital communications as well as to optical engineers designers and practitioners in industry

Computational Science - ICCS 2007 Yong Shi, Geert Dick van Albada, Jack Dongarra, Peter M.A. Slood, 2007-07-14 Part of a four volume set this book constitutes the refereed proceedings of the 7th International Conference on Computational Science ICCS 2007 held in Beijing China in May 2007 The papers cover a large volume of topics in computational science and related areas from multiscale physics to wireless networks and from graph theory to tools for program development      **Coherent**

**Optical Fiber Communications** T. Okoshi, K. Kikuchi, 1988-07-31      S.Chand's Rapid Revision in Computer Science for Class 12 Dheeraj Mehrotra & Yogita Mehrotra, S Chand's Rapid Revision in Computer Science for Class 12      Optical Fiber

Telecommunications IIIA Thomas L. Koch, 2012-12-02 Updated to include the latest information on light wave technology *Optical Fiber Telecommunication III Volumes A B* are invaluable for scientists students and engineers in the modern telecommunications industry This two volume set includes the most current research available in optical fiber telecommunications light wave technology and photonics optoelectronics The authors cover important background concepts such as SONET coding device technology and WDM components as well as projecting the trends in telecommunications for the 21st century One of the hottest subjects of today's technology Includes the most up to date research available in optical fiber telecommunications Projects the trends in telecommunications for the 21st century      *Library of Congress Subject Headings* Library of Congress, 2006      *Computerworld*, 1980-08-18 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's

largest global IT media network      Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1985      *European optical communications and networks* ,1995      **NBS Publications Newsletter** ,1980 A newsletter for librarians documentalists and science information specialists      *Components of Fiber Optic Lans* IGI Staff,1994      **Publications of the National Bureau of Standards, 1987 Catalog** United States. National Bureau of Standards,1988      The Physics of Communication Ioannis Antoniou,Viktor Antonovich Sadovnichii,Hansjoachim Walther,2003 This volume presents the state of the art in the research on new possibilities for communication and computation based on quantum theory and nonlocality as well as related directions and problems It discusses challenging issues decoherence and irreversibility nonlocality and superluminality photonics quantum information and communication quantum computation      **Basic Electronics** Rakesh Kumar Garg,Ashish Dixit,Pavan Yadav,2008      Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1980      **Publications of the National Bureau of Standards** United States. National Bureau of Standards,1987      **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1988

*Current Advances in LANs, MANs, & ISDN* B. G. Kim,1989 A selection of articles reprinted directly from journals that include among others AT the common theme is integrated serv      Optoelectronic Technology and Lightwave Communications Systems Chinlon Lin,2012-12-06 Ever since the invention of the transistor semiconductor based microelectronics has made a revolutionary impact on the information society as evi dent from the widespread application of microprocessor based technology in our modern society The next wave of modern information technology after transistors and microelectronics is that of lasers and micro optoelectronics Optoelectronics or optical electronics based on lasers and related modern optical technology has also become a very important field of science and technology in the past 20 years Electronics or microelectronics deals with micro electronic devices and components for generation transmission and processing of electronic signals In contrast in optoelectronics we deal with optoelectronic devices and components for the generation transmission and processing of lightwave signals It is the interaction of lightwaves photons with matter that shows the uniqueness of optoelectronic technology optical absorption and scattering optical gain and amplification material and waveguide dispersion nonlinear optical effects etc are very much dependent on the material s intrinsic properties and the lightwave propagation effects

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