



Seat No.	
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T.Y. B.Sc. (Semester – III) Examination, 2013
ELECTRONIC SCIENCE (Paper – VI) (Optional) (Ele. – I)
EL – 336 (A) : Fiber Optics and Fiber Optics Communications
(New) (2008 Pattern)

Time : 2 Hours

Max. Marks : 40

- N.B. :** 1) *All questions are compulsory.*
2) *Figures to right indicate full marks.*
3) *Draw labelled diagram wherever necessary.*

1. Attempt **all** of the following :

- | | |
|--|---|
| a) What is BW ? | 1 |
| b) What is quantum efficiency ? | 1 |
| c) State types of optical coupler. | 1 |
| d) What do you mean by longhaul communication ? | 1 |
| e) State any four applications of fiber optic communication system. | 2 |
| f) Compute the NA and acceptance angle of fiber having μ_1 (core refracting index) = 1.50 and refractive index of cladding = 1.45. | 2 |
| g) State commonly used optical sources and detectors. | 2 |
| h) "Fiber optic link has different types of losses". Comment. | 2 |

2. Attempt **any two** of the following :

- | | |
|---|---|
| a) Discuss applications of fiber optic communication system in data transfer and telephony. | 4 |
| b) Explain structure and working of optic fiber cable with suitable diagram. | 4 |
| c) With neat diagram explain CATV network. | 4 |

Optical Fiber Communication Question Paper

**Rakesh Kumar Garg,Ashish
Dixit,Pavan Yadav**



Optical Fiber Communication Question Paper

Optical Fiber Communications Senior John M.,2009 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

FOA Reference Guide to Fiber Optics Jim Hayes,2009-09-04 Updated January 2019 This book is a complete guide to the design installation testing and operation of fiber optic networks It was written with the assistance of many experienced Fiber Optic Association FOA instructors in fiber optics as a reference book for classes aimed at FOA CFOT certification as well as a basic reference for anyone working in the field of fiber optics This book offers expansive coverage on the components and processes of fiber optics as used in all applications and installation practices A complete curriculum for teaching fiber optics using this book as a text is available from FOA

Fiber Optics Engineering Mohammad Azadeh,2009-08-05 Within the past few decades information technologies have been evolving at a tremendous rate causing profound changes to our world and our ways of life In particular fiber optics has been playing an increasingly crucial role within the telecommunication revolution Not only most long distance links are fiber based but optical fibers are increasingly approaching the individual end users providing wide bandwidth links to support all kinds of data intensive applications such as video voice and data services As an engineering discipline fiber optics is both fascinating and challenging Fiber optics is an area that incorporates elements from a wide range of technologies including optics microelectronics quantum electronics semiconductors and networking As a result of rapid changes in almost all of these areas fiber optics is a fast evolving field Therefore the need for up to date texts that address this growing field from an interdisciplinary perspective persists This book presents an overview of fiber optics from a practical engineering perspective

Therefore in addition to topics such as lasers detectors and optical fibers several topics related to electronic circuits that generate detect and process the optical signals are covered In other words this book attempts to present fiber optics not so much in terms of a field of optics but more from the perspective of an engineering field within optoelectronics

Optoelectronic Technology and Lightwave Communications Systems Chinlon Lin,2012-12-06 Ever since the invention of the transistor semiconductor based microelec tronics 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 sig nals 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 scat tering 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

Broadband Circuits for Optical Fiber Communication Eduard Säckinger,2005-05-27 An expert guide to the new and emerging field of broadband circuits for optical fiber communication This exciting publication makes it easy for readers to enter into and deepen their knowledge of the new and emerging field of broadband circuits for optical fiber communication The author s selection and organization of material have been developed tested and refined from his many industry courses and seminars Five types of broadband circuits are discussed in detail Transimpedance amplifiers Limiting amplifiers Automatic gain control AGC amplifiers Lasers drivers Modulator drivers Essential background on optical fiber photodetectors lasers modulators and receiver theory is presented to help readers understand the system environment in which these broadband circuits operate For each circuit type the main specifications and their impact on system performance are explained and illustrated with numerical values Next the circuit concepts are discussed and illustrated with practical implementations A broad range of circuits in MESFET HFET BJT HBT BiCMOS and CMOS technologies is covered Emphasis is on circuits for digital continuous mode transmission in the 2.5 to 40 Gb/s range typically used in SONET SDH and Gigabit Ethernet applications Burst mode circuits for passive optical networks PON and analog circuits for hybrid fiber coax HFC cable TV applications also are discussed Learning aids are provided throughout the text to help readers grasp and apply difficult concepts and techniques including Chapter summaries that highlight the key points Problem and answer sections to help readers apply their new knowledge Research directions that point to exciting new technological breakthroughs on the horizon Product examples that show the performance of actual broadband circuits Appendices that cover eye diagrams differential circuits S parameters transistors

and technologies A bibliography that leads readers to more complete and in depth treatment of specialized topics This is a superior learning tool for upper level undergraduates and graduate level students in circuit design and optical fiber communication Unlike other texts that concentrate on analog circuits in general or mostly on optics this text provides balanced coverage of electronic optic and system issues Professionals in the fiber optic industry will find it an excellent reference incorporating the latest technology and discoveries in the industry

Computational Science - ICCS 2007 Yong Shi,Geert Dick van Albada,Jack Dongarra,Peter M.A. Sloom,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

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 andWDM 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

Coherent Optical Fiber Communications T. Okoshi,K. Kikuchi,1988-07-31 Fiber-optic Communication Systems Govind P. Agrawal,2002 CD ROM contains a software package for designing fiber optic communication systems called OptiSystem Lite and a set of problems for each chapter

Optical Fiber Communication ,1983 Perspectives In Optoelectronics Sudhanshu S Jha,X C Zhang,S Chandrasekhar,Bishnu P Pal,D N Bose,Mustafa A G Abushagur,H John Caulfield,Jason Kinser,Robert J Berinato,Girardeau L Henderson,Guy Lebreton,C Randy Giles,Kailash C Rustagi,W M K P Wijekoon,Paras N Prasad,Giancarlo C Righini,Peter J R Laybourn,P C Mehta,V B Braginsky,Anna Grazia Mignani,Claude Froehly,B Colombeau,M Vampouille,1995-11-15 Optoelectronics is a rapidly expanding field of research and development In years to come it is destined to play a primary role in the growing information industry The basic philosophy behind the science and technology of optoelectronics is to create and develop photonic devices in which optical photons light waves instead of electronic carriers are manipulated for the conventional task performed by microelectronics Thanks to the availability of large bandwidth at optical frequencies the development of cost effective low loss low dispersion silica fibers for optical transmission and the possibility of ultra fast two dimensional processing the field of present day microelectronics is moving steadily towards this new technology of optoelectronics and photonics This volume presents reviews of different areas of

optoelectronics written by international experts in the field covering most of the topics of recent importance It includes detailed discussions on semiconductor lasers and optical amplifiers optical fiber transmission photodetectors optoelectronic and photonic integrated circuits light wave telecommunications optical signal and image processing optical computing nonlinear and integrated optics space time Fourier optics optical metrology and sensing and optical interconnects All chapters are written in the style of a textbook containing tutorial sections which should be of great use to graduate students The volume should serve as an excellent book for graduate level course on optoelectronics modern optical engineering and optical communications *Comprehensive MCQs in Physics* , **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 Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.),1985 Networks 2004 Hermann Kaindl,2004 **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

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