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fiber optic communication systems have advanced dramatically over the last four decades since the era of copper cables resulting in low cost and high bandwidth transmission fiber optics is now the backbone of the internet and long distance telecommunication without it we would not enjoy the benefits of high speed internet or low rate international telephone calls this book introduces the basic concepts of fiber optic communication in a pedagogical way the important mathematical results are derived by first principles rather than citing research articles in addition physical interpretations and real world analogies are provided to help students grasp the

fundamental concepts key features lucid explanation of key topics such as fibers lasers and photodetectors includes recent developments such as coherent communication and digital signal processing comprehensive treatment of fiber nonlinear transmission worked examples exercises and answers accompanying website with powerpoint slides and numerical experiments in matlab intended primarily for senior undergraduates and graduates studying fiber optic communications the book is also suitable as a professional resource for researchers working in the field of fiber optic communications

the third edition of this popular text and reference book presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication systems optical fiber based telecommunication networks have become a major information transmission system with high capacity links encircling the globe in both terrestrial and undersea installations numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain such as signal amplification restoration routing and switching along with the need to understand the functions of these devices comes the necessity to measure both component and network performance and to model and stimulate the complex behavior of reliable high capacity networks

describes the mechanisms of major components such as fibers cables emission sources detectors modulators repeaters system network designs includes a section on industrial automation process control systems

a practical applied introduction to fibre optics which adopts a non mathematical approach and is geared specifically to the technician level student it considers fibre optics components and applications and the theoretical foundation required for more advanced courses

textbook on the physical principles of optical fibers for advanced undergraduates and graduates in physics or electrical engineering

this edition contains new material describing new developments in the field of optical fiber data communications it covers the transformation of the modern data communications network both within the data center and over extended distances between data centers along with best practices for the design of highly virtualized converged energy efficient secure and flattened network infrastructures

market desc although written primarily for graduate students the book can also be used for an undergraduate course at the senior level with an appropriate selection of topics the potential readership is likely to consist of senior undergraduate students graduate students enrolled in the m s and ph d degree programs engineers and

technicians involved with the telecommunications industry and scientists working in the fields of fiber optics and optical communications special features the third edition of a proven best seller the book is accompanied by a solutions manual a comprehensive up to date account of fiber optic communication systems book is accompanied by cd rom providing applications based on text about the book this book is intended to fulfill the requirements of a graduate level textbook in the field of optical communications an attempt is made to include as much recent material as possible so that students are exposed to the recent advances in this exciting field the book can also serve as a reference text for researchers already engaged in or wishing to enter the field of optical fiber communications the reference list at the end of each chapter is more elaborate than what is common for a typical textbook the listing of recent research papers should be useful for researchers using this book as a reference at the same time students can benefit from it if they are assigned problems requiring reading of original research papers a set of problems is included at the end of each chapter to help both teacher and student

this book discusses in detail fiber optic communications systems it describes major components including fibers cables emission sources detectors modulators and repeaters as well as total system designs

introductory book for undergraduate electrical engineering and electronics technology courses covering fiber optics this new and revised fifth edition of fiber optic communications incorporates coverage of significant advances made in the fiber industry in recent years to present a comprehensive and in depth introduction to the basics of communicating using optical fiber transmission lines students will learn system design as well as operating principles characteristics and application of the components that comprise fiber optic systems

this engineering tool provides over 200 time and cost saving rules of thumb short cuts tricks and methods that optical communications veterans have developed through long years of trial and error dwdm dense wavelength division multiplexing and sonet synchronous optical network rules information transmission fiber optics and systems rules

the advantages of optical communications are many ultra high speed highly reliable information transmission and cost effective modulation and transmission links to name but a few it is no surprise that optical fiber communications systems are now in extensive use all over the world along with software and microelectronics optical communication represents a key technology of modern telecommunication systems optical communications components and systems provides the basic material required for advanced study in theory and applications of optical fiber and space communication systems after a review of some fundamental background material

component based chapters discuss all relevant passive and active optical and optoelectronic components used in point to point links and in networks systems chapters address the analysis and optimization of both incoherent and coherent systems introduce fiber optic link design and discuss physical limits the authors also provide an overview of applications such as optical networks and optical free space communications the advanced interactive multimedia communications of today and the future rely on optical fiber and space communication techniques optical communications components and systems offers engineers and physicists a working reference for the selection and design of optical communication systems and provides engineering students with a valuable text that prepares them for work in this essential and rapidly growing field

there has never been a fiber optic communication guide like this it contains 49 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print get the information you need fast this all embracing guide offers a thorough view of key knowledge and detailed insight this guide introduces what you want to know about fiber optic communication a quick look inside of some of the subjects covered wireless photophone internet access technologies optical fiber optical fiber communication fiber to the premises optical communications repeater mach zehnder interferometer introduction optical fiber further reading list of google products services charles k kao fiber optics and communications single mode optical fiber telecommunications in north america computer networking network links optical communication optical fiber optical telecommunication forms fiber optic communication bandwidth distance product telephone details of operation indium gallium arsenide bandgap energy fios optical communication photophone optical telecommunication photophone fios history dense wdm wdm systems fiber optic communication amplifiers phonograph volta s early challenge alexander graham bell fiber to the x fiber to the premises vodafone vodafone group plc 2000 to present fiber optic communication history national broadband network fibre to the premises optical communication citations fiber optic communication applications computer network network links hollow core photonic crystal fiber fiber optic communication technology last mile economies of scale 2013 mass surveillance disclosures august electro absorption modulator and much more

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 developments in addition three new chapters have been incorporated

this text presents the history of the development of fibre optic technology explaining the scientific challenges that needed to be overcome the range of applications and future potential for this fundamental communications technology

this book provides a comprehensive account of fiber optic communication systems the 3rd edition of this book is used worldwide as a textbook in many universities this 4th edition incorporates recent advances that have occurred in particular two new chapters one deals with the advanced modulation formats such as dpsk qpsk and qam that are increasingly being used for improving spectral efficiency of wdm lightwave systems the second chapter focuses on new techniques such as all optical regeneration that are under development and likely to be used in future communication systems all other chapters are updated as well

introduction to fiber optic communications provides students with the most up to date comprehensive coverage of modern optical fiber communications and applications striking a fine balance between theory and practice that avoids excessive mathematics and derivations unlike other textbooks currently available this book covers all of the important recent technologies and developments in the field including electro optic modulators coherent optical systems and silicon integrated photonic circuits filled with practical relevant worked examples and exercise problems the book presents complete coverage of the topics that optical and communications engineering students need to be successful from principles of optical and optoelectronic components to optical transmission system design and from conventional optical fiber links to more useful optical communication systems with advanced modulation formats and high speed dsp this book covers the necessities on the topic even including today s important application areas of passive optical networks datacenters and optical interconnections covers fiber optic communication system fundamentals design rules and terminologies provides students with an understanding of the physical principles and characteristics of passive and active fiber optic components teaches students how to perform fiber optic system design performance evaluation and troubleshooting includes modern advances in modulation and decoding strategies

this book is intended to provide a step by step guide to all design aspects and tradeoffs from theory to application for fiber optics transceiver electronics presenting a compendium of information in a structured way this book enables the engineer to develop a methodical design approach a deep understanding of specifications parameters and the reasons behind them as well as their effects and consequences on system performance which are essential for proper component design further a fundamental understanding of rf digital circuit design and linear and nonlinear phenomena is important in order to achieve the desired performance levels becoming familiar with solid state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations

experts in the field present the theoretical and practical knowledge necessary for understanding and designing fiber optic communication systems this book bridges the gap between classical communication practice and the new techniques required to design fiber optic communication systems engineering rules for designing systems are also given and supported by theoretical treatments

this book deals with optical electronics and communication and is intended as a core textbook for use both at the undergraduate and postgraduate levels in engineering colleges

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