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Fiber-Optic Communication Systems

Govind P. Agrawal

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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

Photonics Abdul Al-Azzawi,2017-12-19 Since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology An explosion of new materials devices and applications makes it more important than ever to stay current with the latest advances Surveying the field from fundamental concepts to state of the art developments Photonics Principles and Practices builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers Providing self contained coverage and using a consistent approach the author leads you step by step through each topic Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations Coverage is divided into six broad sections systematically working through light optics waves and diffraction optical fibers fiber optics testing and laboratory safety A complete glossary useful appendices and a thorough list of references round out the presentation The text also includes a 16 page insert containing 28 full color illustrations Containing several topics presented for the first time in book form Photonics Principles and Practices is simply the most modern comprehensive and hands on text in the field

Lightwave Technology Govind P. Agrawal,2004-06-02 A comprehensive treatise on the components and devices of the lightwave explosion Multiple advances in lightwave technology have led to a veritable overload of global information systems throughout the world Given the sheer number and growing importance of such systems Govind Agrawal s Lightwave Technology answers the need for a comprehensive and up to date account of all major aspects of this rapidly expanding field Components and Devices the first independent volume of this two volume engineering resource is devoted to describing a multitude of today s silica and semiconductor based optical devices Conceived and written by the foremost expert and bestselling author in the fiber optic field the text provides detailed in depth coverage of both theoretical and practical aspects of the science including Fiber optics Passive and active fiber components Planar waveguides Semiconductor lasers and amplifiers Optical modulators Photodetectors WDM components Space and time domain switching The second volume Lightwave Technology Communication Systems deals with the design and performance of modern transmission systems making use of these devices Complete with chapter problems a CD and a Solutions Manual this title serves as both a basic text book for students and a practical everyday reference for engineers and researchers in the field

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Fiber-Optic Communication Systems Agrawal,2002-02-01

Fiber Optic Communications Shiva Kumar,M. Jamal

Deen,2014-06-12 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

Introduction to Optical Fiber Communication

Systems William B. Jones,1988 For seniors or first year graduate students this text is a general introduction to optical electronics with a strong emphasis on underlying physical properties and on the design of optical communications systems Jones provides balanced coverage of optical fibers transmitting devices photodetectors and systems and pays special attention to topics of emerging importance including integrated optical devices heterodyne detection and coherent optical systems The book s practical engineering orientation satisfies the latest ABET recommendations for more design instruction in electrical engineering courses

Solutions Manual to Accompany Optical Fiber Communications Gerd Keiser,1983

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Introduction to Fiber-Optic

Communications Rongqing Hui,2019-06-12 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 Solutions Manual: Optical Fiber Communications Systems Le Nguyen Binh, 2010 **International Books in Print** , 1986 **Optical Communication Systems** John Gowar, 1984 Elementary discussion of propagation in fibers Attenuation in optical fibers and cables Electromagnetic wave propagation in step index fibers Basic semiconductor properties Injection luminescence The use of heterostructures Laser action in semiconductors Semiconductors p i n photodiode detectors Avalanche photodiode detectors The receive amplifier The regeneration of digital signals Unguided optical communication systems Optical fiber communication systems The electromagnetic wave equation in an isotropic medium subject to cylindrical boundary conditions Electromagnetic waves in graded index fiber the WKB approximation Ray trajectories in graded index fiber Radiometry and photometry Source fiber coupling Derivation of frequency response of a laser diode The impulse response of a filter with antisymmetric frequency response Solutions to numerical problems

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