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Offering many worked examples and end of chapter problems, this new edition is a comprehensive introduction to optical fiber communications and single mode fiber properties and types. It features coverage of optical fiber couples and wavelength division multiplexing devices, optical amplifiers, active integrated optic devices, and coherent transmission. For electrical and electronic engineers.

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For courses in Introduction to Fiber Optics and Introduction to Optical Networking in departments of Electronics Technology and Electronics Engineering Technology. Also suitable for corporate training programs. Ideal for technicians, entry-level engineers, and other nonspecialists, this best-selling practical,

thorough, and accessible introduction to fiber optics reflects the expertise of an author who has followed the field for over 25 years. Using a non-theoretical/non-mathematical approach, it explains the principles of optical fibers, describes components and how they work, explores the tools and techniques used to work with them and the devices used to connect fiber network, and concludes with applications showing how fibers are used in modern communication systems. It covers both existing systems and developing technology, so students can understand present systems and new developments.

"This new title covers basic topics such as transmitters, fibers, amplifiers and receivers and details new developments such as nonlinear fiber-optic systems and nonlinear phase noise. Starting with a review of electromagnetics and optics, including Faraday's law and Maxwell's equation, it then moves on to provide information on optical fiber transmissions, laser oscillations, wave particle density and semiconductor laser diodes. This is followed up with chapters covering optical sources, optical modulators, optical receivers, including coherent receivers, and optical amplifiers. The final part of the book discusses performance analysis, channel multiplexing techniques, nonlinear effects and digital signal processing respectively"--

A comprehensive evaluation of Fi-Wi, enabling readersto design links using channel estimation and equalizationalgorithms This book provides a detailed study of radio over fiber (ROF)based wireless communication systems, otherwise called fiberwireless (Fi-Wi) systems. This is an emerging hot topic where theabundant bandwidth of optical fiber is directly combined with theflexibility and mobility of wireless networks to provide broadbandconnectivity. Its application is increasing because of thegrowing demand for broadband wireless services. In such a systemthe transmission of the radio signals over a fiber is an importanttask. This book provides substantial material on the radio overfiber part of the complete fiber-wireless system, including newresearch results on the compensation methods. The early chapters provide fundamental knowledge required for anon-expert engineering professional as well as senior/graduatelevel students to learn this topic from scratch. The latter part ofthe book covers advanced topics useful for researchers and seniorstudents. Therefore, this book provides a comprehensiveunderstanding of the system for readers who will gain enoughknowledge to design Fi-Wi links of their own by learning how todevelop Fi-Wi channel estimation and equalization algorithms. Thisconcept is completely novel in current literature and has beenpatented by the author. Readers are expected to have a basic understanding of fiberoptics and wireless communications to easily follow the book and toappreciate the concepts. Basics of the Fi-Wi system and signalprocessing approaches are clearly explained. It covers amultidisciplinary topic and acts as a bridge between optical andwireless communication domains. In the increasingly demandingtelecommunications profession, engineers are expected to haveknowledge in both optical and wireless communications and expecteddesign combined/hybrid systems. Hence, the book is written in sucha way that both optical and wireless professionals will be able toeasily understand and perceive the concepts. follows a logical process from basic principles through toadvanced topics, providing a wide range of interest forresearchers, practicing engineers, students, and those required tobuild such networks explains detailed system design concepts and the limitationsand advantages in each configuration, appealing to designengineers, and largely avoiding system specifics demonstrates the author's exclusive patent, showing howto develop baseband signal processing algorithms for Fi-Wi systems,which is a key requirement for the successful deployment of Fi-Wisystems contains tables, numerical examples and case studies, facilitating a good quantitative understanding of the topic

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