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Gerd Keiser is a research professor at Boston University and a professor and consultant at PhotonicsComm Solutions, a firm specializing in education and consulting for the optical communications and biophotonics industries. Previously he was involved with telecom technologies at Honeywell, GTE, and General Dynamics.

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Gerd Keiser is a research professor at Boston University and a professor and consultant at PhotonicsComm Solutions, a firm specializing in education and consulting for the optical communications and biophotonics industries. Previously he was involved with telecom technologies at Honeywell, GTE, and General Dynamics.

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**Optical Fiber Communications Gerd Keiser 5th Edition**

Gerd Keiser is founder and president of PhotonicsComm Solutions, Inc., a firm specializing in consulting and education for the optical communications industry. (Visit www.PhotonicsComm.com.)

Optical Fiber Communications captures the essence of this dynamic and exciting subject area by presenting the fundamental principles of optical fiber technology, and then gradually developing upon them to capture the most sophisticated modern communication networks.

This book highlights the fundamental principles of optical fiber technology required for understanding modern high-capacity lightwave telecom networks. Such networks have become an indispensable part of society with applications ranging from simple web browsing to critical healthcare diagnosis and cloud computing. Since users expect these services to always be available, careful engineering is required in all technologies ranging from component development to network operations. To achieve this understanding, this book first presents a comprehensive treatment of various optical fiber structures and diverse photonic components used in optical fiber networks. Following this discussion are the fundamental design principles of digital and analog optical fiber transmission links. The concluding chapters present the architectures and performance characteristics of optical networks.

This book on Optical Fiber Communication presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication system.

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.

\* The most comprehensive introduction to optical communications available anywhere—from the author of Optical Fiber Communications, the field's leading text \* Concise, illustrated module-style chapters quickly bring non-specialists up-to-speed \* Extensive DWDM (Dense Wavelength Division Multiplexing) coverage \* Advanced topics and limited math covered in side-bars' \* Free space optical (wireless fiber optics)

This book presents fundamental passive optical network (PON)concepts, providing you with the tools needed to understand,design, and build these new access networks. The logical sequenceof topics begins with the underlying principles and components ofoptical fiber communication technologies used in access networks.Next, the book progresses from descriptions of PON andfiber-to-the-X (FTTX) alternatives to their application tofiber-to-the-premises (FTTP) networks and, lastly, to essentialmeasurement and testing procedures for network installation andmaintenance. An Instructor's Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment.

Beginning with an overview of historical development, the electromagnetic spectrum, and optical power basics, this book offers an in-depth discussion of optic receivers, optical transmitters and amplifiers. The text discusses attenuation, transmission losses, optical sources such as semiconductor light emitting diodes, and lasers, providing several dispersion-management schemes that restore the amplified signal to its original state. Topics are discussed in a structured manner, with definitions, explanations, examples, illustrations, and informative facts. Extensive pedagogical features, such as numerical problems, review questions, multiple choice questions, and student-focused learning objectives, are also provided. Mathematical derivations and geometrical representations are included where necessary. This text will be useful for undergraduate and graduate students of electronics, communication engineering, and optical fiber communications.

The text book on Optical Fiber Communication describes the optical fiber with its low-loss and highbandwidth characteristics which has the potential to provide enormous capacity of transmitted data as compared to electronic means. This book will describe the fundamental operation and recent advances in the exciting area of optical fiber communication systems. Salient Features Designing and analyzing a viable optical transmission system in the form of Analog and Digital Links. Coverage of recent developments pertaining to field of Optical Fibers. Coverage of Advance Optical Technology i.e., Optical Networks, Optical Amplifiers, Optical Switches, WDM Concepts.

This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the design and utilisation of optical fiber systems. This edition retains all core features, while incorporating recent improvements and developments in the field.

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