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Introduction

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Dispersion in Optical Fiber- Intersymbol Interference- Intramodal/ Chromatic \u0026 Intermodal

Dispersion Introduction of Optical fiber communication Optical Fiber mode theory in optical

communication Link Power Budget Analysis of Optical Fiber Communication System Block diagram

and working of fiber optic communication system Introduction to optical fiber

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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.

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This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the

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design and utilisation of optical fiber systems. This edition retains all core features, while incorporating recent improvements and developments in the field.

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-focussed 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.

This book provides a step-by-step discussion through each topic of fiber optics. Each chapter explores theoretical concepts of principles and then applies them by using experimental cases with numerous illustrations. The book works systematically through fiber optic cables, advanced fiber optic cables, light attenuation in optical components, fiber optic cable types and installations, fiber optic connectors, passive fiber optic devices, wavelength division multiplexing, optical amplifiers, optical receivers, opto-mechanical switches, and optical fiber communications. It includes important chapters in fiber optic lighting, fiber optics testing, and laboratory safety.

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