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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.

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.

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