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Representing the latest in the field, the new edition of Optical Electronics in Modern Communications introduces students to the first principles of phenomena and devices important in the practice of laser physics, and applications based on lasers with emphasis placed on optical fiber communications.

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Optical Electronics in Modern Communications
About this title. This textbook is designed for senior undergraduate and first year graduate students in electrical engineering departments taking photonics, optoelectronics or optical communications courses. The text covers key subjects in optical electronics and their applications in modern optical communications where optical waves are used as carriers of information for local and long distance transmission.

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The text describes the basic physics and principles of operation of major photonic components in optical communications and electronics. These components include optical resonators, various lasers, waveguides, optical fibers, gratings, and photonic crystals. Photonics, Sixth Edition, also covers the transmission, modulation, amplification, and detection of optical beams in optical networks, as well as nonlinear optical effects in fibers.

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