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Optical Electronics in Modern Communications. Sixth Edition. Amnon Yariv and Pochi Yeh. Publication Date - January 2006. ISBN: 9780195179460. 848 pages Hardcover 7-1/2 x 9-1/4 inches Retail Price to Students: \$199.95. Extensively revised and updated to keep pace with the unprecedented development

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Direct transmission of pictorial information in multimode optical fibers* A. Gover, C. P. Lee, and A. Yariv California Institute of Technology, Pasadena, California 91125

(Received 21 August 1975; revised manuscript received 19 December 1975) The problem of coherent image transmission through a single multimode optical fiber is discussed.

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Amnon Yariv, Israeli electrical engineering educator, research scientist. Recipient Pender award University Pennsylvania, Harvey prize Technion, Israel, 1992, National Medal

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The optical waveguide is the fundamental element that interconnects the various devices of an optical integrated circuit, just as a metallic strip does in an electrical integrated circuit. However, unlike electrical current that flows through a metal strip according to Ohm's law, optical waves travel in the waveguide in distinct

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Based on a Cal Tech course, this is an outstanding introduction to formal quantum

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mechanics for advanced undergraduates in applied physics. The treatment's exploration of a wide range of topics culminates in two eminently practical subjects, the semiconductor transistor and the laser. Each chapter concludes with a set of problems. 1982 edition.

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This classic text introduces engineering students to the first principles of major phenomena and devices of optoelectronics and optical communication technology. Yariv's first principles approach employs real-life examples and extensive problems. The text includes separate chapters on quantum well and semiconductor lasers, as well as phase conjugation and its applications. Optical fiber amplification, signal and noise considerations in optical fiber systems, laser arrays and distributed feedback lasers all are covered extensively in major sections within chapters.

This Third Edition of the popular text, while retaining nearly all the material of the

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previous edition, incorporates material on important new developments in lasers and quantum electronics. Covers phase-conjugate optics and its myriad applications, the long wavelength quaternary semiconductor laser, and our deepened understanding of the physics of semiconductor lasers--especially that applying to their current modulations and limiting bandwidth, laser arrays and the related concept of supermodes, quantum well semiconductor lasers, the role of phase amplitude coupling in laser noise, and free-electron lasers. In addition, the chapters on laser noise and third-order nonlinear effects have been extensively revised.

The text has been revised to incorporate new developments in lasers and quantum electronics. Other subjects covered include phase-conjugate optics, long wavelength quaternary semiconductor lasers, the physics of semiconductor lasers, laser arrays and free-electron lasers.

Designed for senior undergraduate/first year graduate students in electrical engineering departments, this text covers key subjects in optical electronics and their applications in modern optical communications where optical waves are used as carriers of information.

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