

Photonics: Optical Electronics in Modern Communications

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Reviews

Very useful for all group of people. It is amongst the most incredible pdf i actually have read through. Its been written in an extremely straightforward way and it is just right after i finished reading through this pdf by which basically modified me, change the way i think. (Felicia Nikolaus)

PHOTONICS: OPTICAL ELECTRONICS IN MODERN COMMUNICATIONS



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Oxford University Press, USA. Hardcover. Condition: New. 848 pages. Dimensions: 9.3in. x 7.7in. x 1.4in.Due to its central role in modern communications technologies, photonics--or optical electronics--has evolved dynamically over the last ten years. Photonics by Amnon Yariv and Pochi Yeh is extensively revised and updated to keep pace with this unprecedented development. Now more tailored to optical communication, the sixth edition integrates material on generating and manipulating optical radiation and designing photonic components for the transmission of information. It also presents a broader theoretical underpinning and more explanations of mathematical derivations than the previous edition. 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. It assumes a background in electromagnetic theory, Maxwells equations, and electromagnetic wave propagation. Including numerous examples throughout, Photonics, Sixth Edition, is ideal for advanced undergraduate and graduate courses in photonics, optoelectronics, or optical communications. It is also a useful reference for practicing engineers and scientists. New Material in the Sixth EditionStokes Parameters and Poincar Sphere: polarization states in birefringent optical networks, principal states of polarizationFermats Principle: rays, beam propagation, and the Fresnel diffraction integralMatrix Formulation: wave propagation in multi-cavity etalons, multi-layer structures, mode coupling, and supermodes in mode-locked lasersDispersion: chromatic dispersion and polarization mode dispersion (PMD) in fibers and their compensationCoupled Resonators Optical Waveguides (CROWs): matrix formulation, critical coupling and dispersion relationNonlinear Optical Effects in Fibers: self-phase modulation, cross-phase modulation, stimulated Brillouin scattering (SBS), stimulated Raman scattering (SRS), optical four-wave mixing, and spectral reversal (phase conjugation)Electroabsorption: waveguide electro-optic Mach-Zehnder modulatorsPhotonic Crystals: Bloch wave formulation, photonic bands, photonic...

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