



Photonics: Optical Electronics in Modern Communications

By Amnon Yariv

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, Maxwell's 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...



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