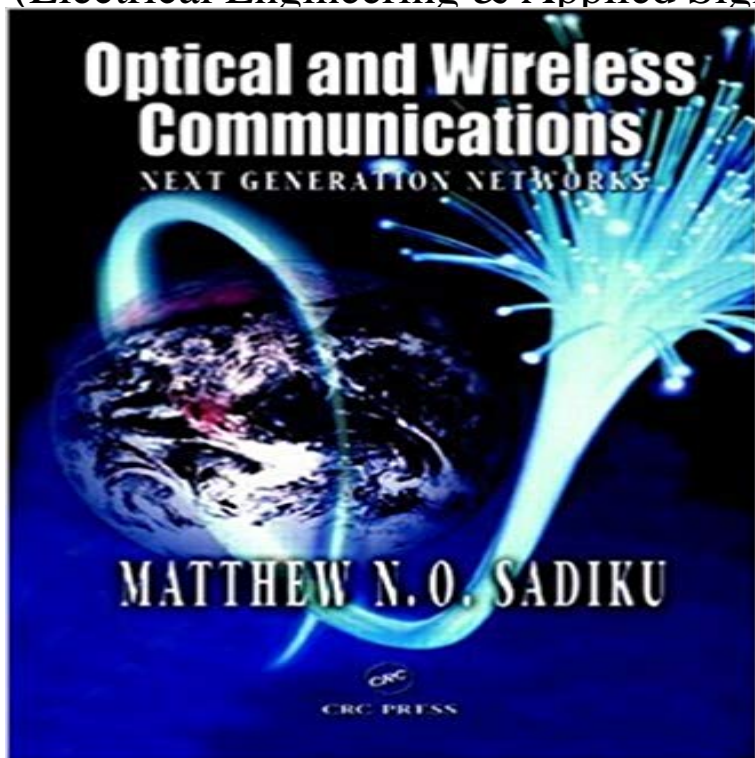


Optical and Wireless Communications: Next Generation Networks (Electrical Engineering & Applied Signal Processing Series)



Optical and wireless technologies are being introduced into the global communications infrastructure at an astonishing pace. Both are revolutionizing the industry and will undoubtedly dominate its future, yet in the crowded curricula in most electrical engineering programs, there is no room in typical data communications courses for proper coverage of these next generation technologies. Optical and Wireless Communications: Next Generation Networks covers both types of networks in a unique presentation designed for a one-semester course for senior undergraduate or graduate engineering students. Part I: Optical Networks covers optical fibers, transmitters, receivers, multiplexers, amplifiers, and specific networks, including FDDI, SONET, fiber channel, and wavelength-routed networks. Part II: Wireless Networks examines fundamental concepts and specific wireless networks, such as LAN, ATM, wireless local loop, and wireless PBXs. This section also explores cellular technologies and satellite communications. Eventually, next generation networks will be as ubiquitous as traditional telephone networks, and today's engineering students must be prepared to meet the challenges of optical and wireless systems development and deployment. Filled with illustrations, examples, and end-of-chapter problems, Optical and Wireless Communications: Next Generation Networks provides a brief but comprehensive introduction to these technologies that will help future engineers build the foundation they need for success.

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