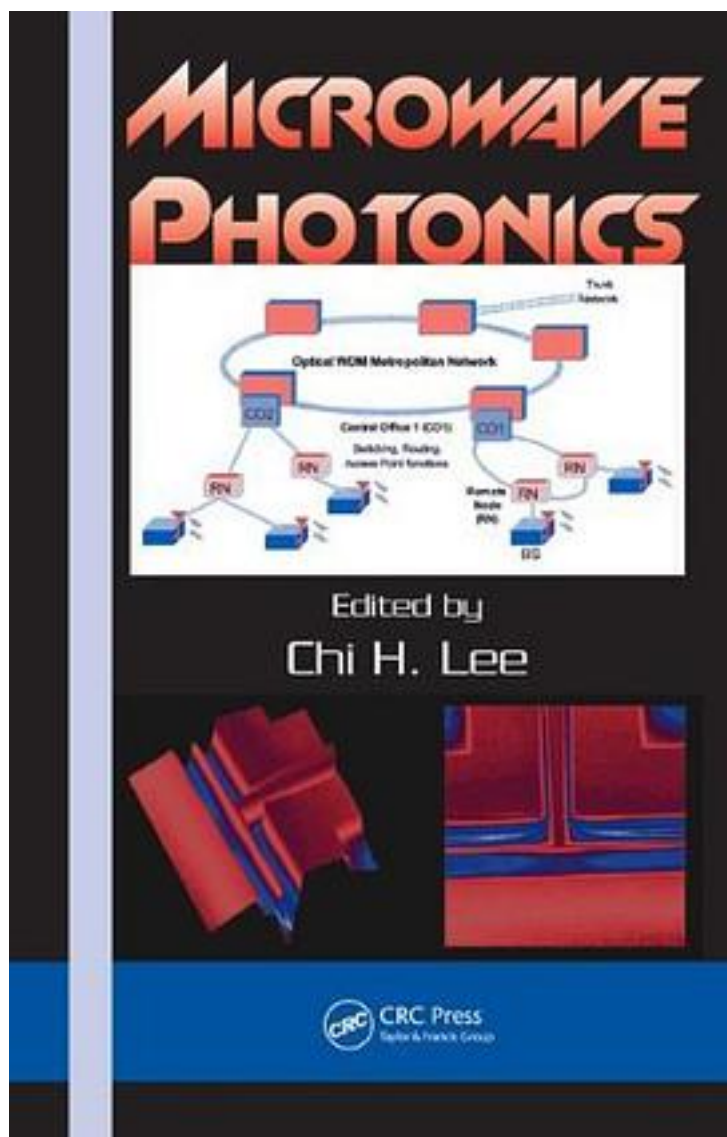


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Wireless, optical, and electronic networks continue to converge, prompting heavy research into the interface between microwave electronics, ultrafast optics, and photonic technologies. New developments arrive nearly as fast as the photons under investigation, and their commercial impact depends on the ability to stay abreast of new findings, techniques, and technologies. Presenting a broad yet in-depth survey, "Microwave Photonics" examines the major advances that are affecting new applications in this rapidly expanding field. This book reviews important achievements made in microwave photonics over the past decade, presented by experienced and respected researchers. They focus on a variety of aspects involved in the generation, distribution, measurement, and control of micro- and millimeter-wave signals as well as the enabling devices and components. From optical-controlled microwave devices to optical transmitters, receivers, switching devices, detectors, and modulators, the discussion covers the theory, techniques, and technologies fueling applications such as radio-over-fiber, ultrabroadband and ultrafast networks, injection-locked semiconductor lasers, and terahertz photonics. The expert contributors share insights on overcoming current limitations as well as on future prospects. Fully illustrated with more than 300 figures and tables, "Microwave Photonics" offers a detailed, wide-reaching overview of the current state and future directions of this burgeoning technology.

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