

OPTICAL AND MICROWAVE TECHNOLOGIES FOR TELECOMMUNICATION NETWORKS

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This book provides a complete overview of the field of optical networks starting at an introductory level for devices and networks, and leading to an up-to-date description of the major types of networks: access, long-haul, and their control by switching and routing technologies. It includes chapters on optical switching with an overview of optical packet- and optical burst-switching, and hybrid optical-wireless networks. Besides fiber-optics, different technologies are applied with several interfaces to fibers. This includes optical wireless communications, microwaves, radio over fiber, WLAN and radar.

This is a self-contained book on the foundations and applications of optical and microwave technologies to telecommunication networks application, with an emphasis on access, local, road, indoor and in-car data transmission. The book provides a systematic discussion of physics/optics, electromagnetic wave theory, optical fiber technology, and the potential and limitations of optical and microwave transmission.

- Discusses converged optical and microwave communications, including coverage of Components, Systems and Networks for High-Speed Long-Distance, LAN, MAN, Home, Automotive Applications and Automation Technology
- Offers an up-to-date description of the major types of networks; access, long-haul, and their control by switching and routing technologies
- Written by an expert author with practical experience both from industry and academia

ABOUT THE AUTHOR

Otto Strobel has worked for many years in R&D and consultancy for companies including Daimler, Alcatel-Lucent (now Bell Labs Germany), HP (now Agilent), Siemens and Diehl Aerospace. He currently teaches physics, optoelectronics, optical communication, optical buses in automotive applications and optical sensors at the Esslingen University of Applied Sciences.

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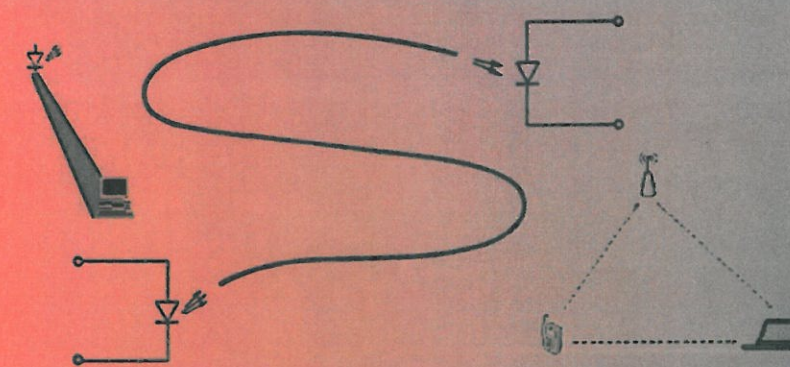


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