



Optical Electronics in Modern Communications (The Oxford Series in Electrical and Computer Engineering)

Amnon Yariv

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Now in its fifth edition, *Optical Electronics in Modern Communications* reflects the latest developments in the field Yariv helped define. The changes to this edition emulate the continuous ascendance of optical communication to the forefront of communication technology, evidenced by the change in title from *Optical Electronics* in previous editions. The text introduces readers to the first principles of phenomena and devices used in the practice of laser physics, including applications based on lasers with emphasis placed on optical fiber communications, and features real-life examples as well as extensive problems. New to this edition are sections on pulse dispersion and narrowing in fibers, high speed modulation of semiconductor lasers, vertical cavity lasers, quantum optics, holographic data storage, fiber gratings, and dfb lasers. A solutions manual is also available for instructors. Known as the authoritative forerunner on Optical Electronics, this new edition can be used as both a core text in the classroom and as an invaluable reference for practicing engineers.

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