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The practice of shaping the irradiance profile of laser beams goes back more than three decades, and the applications of beam shaping are as diverse as they are numerous.

However, until Dickey and Holswade's groundbreaking and highly popular *Laser Beam Shaping: Theory and Techniques* was published, there was no single, detailed treatment available on the underlying theory and basic techniques of beam shaping. Building on the foundations of this previous work, these esteemed editors have teamed with recognized expert David L. Shealy to produce the first in-depth account of beam shaping applications and design. *Laser Beam Shaping Applications* details the important features of beam shaping and exposes the subtleties of the theory and techniques that are best demonstrated through proven applications. In chapters contributed by prominent, active leaders in their respective specialties, the book discusses applications in lithography, laser printing, optical data storage, stable isotope separation, adaptive mirrors, and spatially dispersive lasers. The contributors share major insights, knowledge, and experience, reveal the advantages of the technologies, and include extensive references to the literature. The book concludes with a summary of beam shaping theory and techniques as well as the history of the field. Providing practical expertise, *Laser Beam Shaping Applications* is an extremely helpful guide to improving current laser processes, optimizing application-specific technologies, and advancing future development in the field.

The text has been revised to incorporate new developments in lasers and quantum electronics. Other subjects covered include phase-conjugate optics, long wavelength quaternary semiconductor lasers, the physics of semiconductor lasers, laser arrays and free-electron lasers.

Based on a Cal Tech course, this is an outstanding introduction to formal quantum mechanics for advanced undergraduates in applied physics. The treatment's exploration of a wide range of topics culminates in two eminently practical subjects, the semiconductor transistor and the laser. Each chapter concludes with a set of problems. 1982 edition.

Keeping abreast of the latest techniques and applications, this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded. While the general concept is unchanged, the new edition features a broad array of new material, e.g., ultrafast lasers (atto- and femto-second lasers), coherent matter waves, Doppler-free Fourier spectroscopy, interference spectroscopy, quantum optics and gravitational waves and still more applications in chemical analysis, medical diagnostics, and engineering.

This book provides an in-depth treatment of both linear fiber-optic systems and their key enabling devices. It presents a concise but rigorous treatment of the theory and practice of analog (linear) fiber-optics links and systems that constitute the foundation of Hybrid Fiber Coax infrastructure in present-day CATV distribution and cable modem Internet access. Emerging applications in remote fiber-optic feed for free-space millimeter wave enterprise campus networks are also described. Issues such as dispersion and interferometric noise are treated quantitatively, and means for mitigating them are explained. This broad but concise text will thus be invaluable not only to students of fiber-optics communication but also to practicing engineers. To the second edition of this book important new aspects of linear fiber-optic transmission technologies are added, such as high level system architectural issues, algorithms for deriving the optimal frequency assignment, directly modulated or externally

modulated laser transmitters and the use of Erbium-doped fiber amplifier (EDFA) in linear fiber optic systems. Significant examples of field deployed military systems enabled by linear fiber optic links are described in an appendix.

Keeping abreast of the latest techniques and applications, this new edition of the standard reference and graduate text on laser spectroscopy has been completely revised and expanded. While the general concept is unchanged, the new edition features a broad array of new material, e.g., frequency doubling in external cavities, reliable cw-parametric oscillators, tunable narrow-band UV sources, more sensitive detection techniques, tunable femtosecond and sub-femtosecond lasers (X-ray region and the attosecond range), control of atomic and molecular excitations, frequency combs able to synchronize independent femtosecond lasers, coherent matter waves, and still more applications in chemical analysis, medical diagnostics, and engineering.

Since the invention of the laser, our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology. New advances in fiber optic devices, components, and materials make it more important than ever to stay current. Comprising chapters drawn from the author's highly anticipated book *Photonics: Principles and Practices*, *Fiber Optics: Principles and Practices* offers a detailed and focused treatment for anyone in need of authoritative information on this critical area underlying photonics. Using a consistent approach, the author leads you step-by-step through each topic. Each skillfully crafted chapter first explores the theoretical concepts of each topic, and then demonstrates how these principles apply to real-world applications by guiding you through experimental cases illuminated with numerous illustrations. The book works systematically through fiber optic cables, advanced fiber optic cables, light attenuation in optical components, fiber optic cable types and installations, fiber optic connectors, passive fiber optic devices, wavelength division multiplexing, optical amplifiers, optical receivers, opto-mechanical switches, and optical fiber communications. It also includes important chapters in fiber optic lighting, fiber optics testing, and laboratory safety. Containing several topics presented for the first time in book form, *Fiber Optics: Principles and Practices* is simply the most modern, detailed, and hands-on text in the field.

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