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Waveguides: From Theory to Applied Technologies combines the most relevant aspects of waveguide theory with the study of current detailed waveguiding technologies, in particular, photonic devices, telecommunication equipment, and infrared systems. This book discusses the fundamentals of the field and presents a unified treatment of various waveguide types, as used in different application areas. It is designed to be accessible to scientists and engineers with a background in electrical or electronic engineering, as well as to students and researchers in the field of photonics.

The book begins with an introduction to the basic principles of waveguides and their operation. It then proceeds to discuss the different types of waveguides, including optical fibers, slab waveguides, and waveguide couplers. The text also covers the theory and design of photonic devices and integrated optical circuits, as well as the application of waveguides in telecommunications and sensing technologies. Finally, the book concludes with a discussion of the latest developments in the field, including the use of waveguides in optical computing and quantum information processing.

Photonics: Principles and Applications provides a comprehensive introduction to the subject of photonic devices and techniques, covering the fundamental principles of optics, as well as the latest developments in the field. The text is written in an accessible style, with a focus on clarity and conciseness, and includes numerous worked examples and exercises. It is suitable for use as a textbook for undergraduate and graduate courses, as well as for self-study by researchers and engineers in the field of photonics.

The book is divided into seven parts, each covering a different aspect of photonic devices and techniques. Part I introduces the basic principles of optics, including wave theory, geometric optics, and the laws of reflection and refraction. Part II covers the properties of light, including absorption, scattering, and emission. Part III discusses the interaction of light with matter, including nonlinear optics and the effects of electron and hole dynamics. Part IV covers the fundamentals of photonic devices, including semiconductor lasers and amplifiers, photodetectors, and modulators. Part V covers the applications of photonic devices, including optical communications, optical computing, and optical sensing. Part VI examines the use of photonic devices in emerging technologies, including optical interconnects and optical computing. Finally, Part VII discusses the latest developments in the field, including the use of photonic devices in quantum information processing and optical sensing.

Overall, this book provides a comprehensive introduction to the field of photonic devices and techniques, covering the fundamental principles of optics, as well as the latest developments in the field. It is written in an accessible style, with a focus on clarity and conciseness, and includes numerous worked examples and exercises. It is suitable for use as a textbook for undergraduate and graduate courses, as well as for self-study by researchers and engineers in the field of photonics.