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This textbook presents the basic elements needed to understand and engage in research in semiconductor physics. It deals with elementary excitations in bulk and low-dimensional semiconductors, including quantum wells, quantum wires and quantum dots. The basic principles underlying optical nonlinearities are developed, including excitonic and many-body plasma effects. The fundamentals of optical bistability, semiconductor lasers, femtosecond excitation, optical Stark effect, semiconductor photon echo, magneto-optic effects, as well as bulk and quantum-confined Franz-Keldysh effects are covered. The material is presented in sufficient detail for graduate students and researchers who have a general background in quantum mechanics. Request Inspection Copy

This book is the result of more than ten years of research and teaching in the field of quantum electronics. The purpose of the book is to introduce the principles of lasers, starting from elementary notions of quantum mechanics and electromagnetism. Because it is an introductory book, an effort has been made to make it self contained to minimize the need for reference to other works. For the same reason; the references have been limited (whenever possible) either to review papers or to papers of seminal importance. The organization of the book is based on the fact that a laser can be thought of as

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consisting of three elements: (i) an active material, (ii) a pumping system, and (iii) a suitable resonator. Accordingly, after an introductory chapter, the next three chapters deal, respectively, with the interaction of radiation with matter, pumping processes, and the theory of passive optical resonators.

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this unique reference spans the entire spectrum of photonics, including: \* Eighteen chapters covering optics, electro-optics, optics of the atmosphere, radiometry, technologies related to security and surveillance systems, lasers, and many others. \* If you want to develop a sense of what will work and what won't and want the calculations to keep things real, Photonics Rules of Thumb belongs on your desk or in your pocket.

Developments in lasers continue to enable progress in many areas such as eye surgery, the recording industry and dozens of others. This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject, author and titles indexes.

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