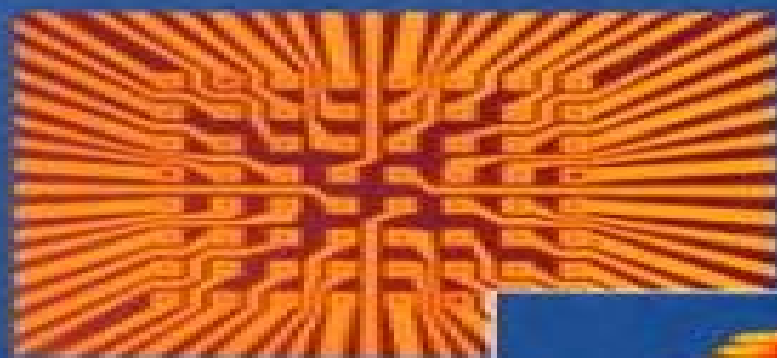


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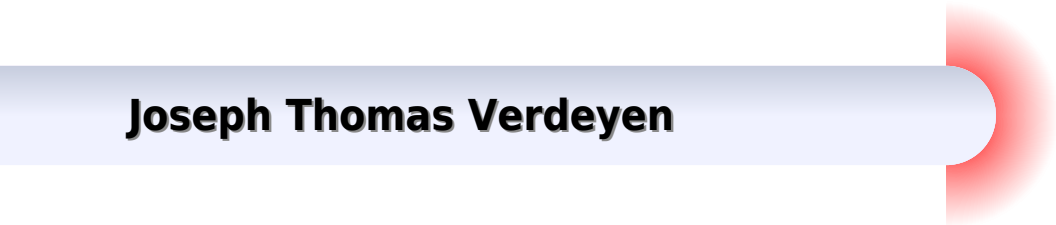


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Lasers Charles Blain, 2002 Developments in lasers continue to enable progress in many areas such as eye surgery the recording industry and dozens of others This book presents citations from the book literature for the last 25 years and groups them for ease of access which is also provided by subject author and titles indexes

Laser Electronics Joseph T. Verdeyen, 1989

Introductory Matter Physics Francesco Simoni, 2018-08-03 This book aims to introduce the reader to basic concepts concerning matter physics describing how fundamental properties of atoms molecules and condensed matter are affected by properties of electrons and by their interaction with electromagnetic waves As an introductory text on basic properties of matter the contents are designed for undergraduate students in electrical engineering It is based on the lectures given by the author for over a decade on Matter Physics and Solid State Physics It focuses on electronic properties to discuss the structure electrical and optical properties of matter and is organized into six chapters The first chapter is a short review of the basic properties of electromagnetic waves giving the basic concepts related to wave propagation to be handled easily to understand the subsequent topics The next chapter on quantum mechanics helps to understand the quantum properties of matter using the simplest formalizations Chapter 3 introduces the core of the book by using quantum mechanics to describe the electronic properties of the atom Then after atomic bonding molecules and condensed matter are discussed before approaching the structural properties of crystal and soft matter The following chapters 4 and 5 are then devoted to electrical properties and optical properties and address the main topics related to solid state and semiconductor physics as well as light matter interaction The final chapter 6 deals with the basic properties of lasers due to the relevance of light sources in everyday life and their widespread use in all branches of engineering

Reference Data for Engineers Mac E. Van Valkenburg, 2001-10-19 Reference Data for Engineers is the most respected reliable and indispensable reference tool for technical professionals around the globe Written by professionals for professionals this book is a complete reference for engineers covering a broad range of topics It

is the combined effort of 96 engineers scientists educators and other recognized specialists in the fields of electronics radio computer and communications technology By providing an abundance of information on essential need to know topics without heavy emphasis on complicated mathematics Reference Data for Engineers is an absolute must have for every engineer who requires comprehensive electrical electronics and communications data at his or her fingertips Featured in the Ninth Edition is updated coverage on intellectual property and patents probability and design antennas power electronics rectifiers power supplies and properties of materials Useful information on units constants and conversion factors active filter design antennas integrated circuits surface acoustic wave design and digital signal processing is also included The Ninth Edition also offers new knowledge in the fields of satellite technology space communication microwave science telecommunication global positioning systems frequency data and radar Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals from technicians through post graduate engineers Provides a great way to learn or review the basics of various technologies with a minimum of tables equations and other heavy math

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