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Principles Of Quantum Electronics Lasers

Orazio Svelto, D. C. Hanna

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Principles of Quantum Electronics: Lasers William Shen-chie Chang, 1969 Problems after each cahpter of Quantum Electronics Dietrich Marcuse, 2012-12-02 Principles of Quantum Electronics focuses on the concept of quantum electronics as the application of quantum theory to engineering problems It examines the principles that govern specific quantum electronics devices and presents their theoretical applications to typical problems Comprised of 10 chapters this book starts with an overview of the Dirac formulation of quantum mechanics This text then considers the derivation of the formalism of field quantization and discusses the properties of photons and phonons Other chapters examine the interaction between the electromagnetic field and charged particles This book discusses as well the interaction of radiation with free and bound electrons with focus on the spontaneous and stimulated emission of radiation by bound electrons The final chapter provides the investigation that Maxwell s theory can be regarded as the quantum theory of a single photon This book is a valuable resource for graduate students specialists and engineers who are interested in the field of quantum electrodynamics

Principles of Lasers Orazio Svelto, D. C. Hanna, 2013-06-29 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 consisting of three elements i an active material ii a pumping system and iii a suitable resonator Ac cordingly 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 Principles of Quantum Electronics William Shen-chie Chang, 1969 **Principles of Lasers** Orazio Svelto, 2009-09-29 This book is motivated by the very favorable reception given to the previous editions as well as by the considerable range of new developments in the laser field since the publication of the third edition in 1989 These new developments include among others quantum well and muitiple quantum welliasers diode pumped solid state lasers new concepts for both stable and unstable resonators femtosecond lasers ultra high brightness lasers etc This edition thus represents a radically revised version of the preceding edition amounting essentially to a new book in its own right However the basic aim has remained the same namely to provide a broad and unified description of laser behavior at the simplest level which is compatible with a correct physical understanding The book is therefore intended as a textbook for a senior level or first year graduate course and or as a reference book The most relevant additions or changes to this edition can be summarized as follows 1 A much more detailed description of Amplified Spontaneous Emission has been given Chapter 2 and a novel simplified treatment of this phenomenon both for homogeneous and inhomogeneous lines has been introduced Appendix C 2 A major fraction of a new chapter Chapter 3 is dedicated to the

interaction of radiation with semiconductor media either in a bulk form or in a quantum confined structure quantum well **Principles of Laser Dynamics** Y.I. Khanin,2012-12-02 This monograph summarizes quantum wire and quantum dot 3 major achievements in laser dynamics over the past three decades The book begins with two introductory Chapters Chapter 1 offers general considerations on quantum oscillators formulates the requirements for the laser key elements and shows how these requirements are met in different laser systems. The second Chapter proposes the mathematical models used in semiclassical laser theory discusses the approximations and simplifications in particular cases and specifies the range of applicability of these models In Chapters 3.5 attention is given primarily to the steady states and their stability the laser behavior in the instability domain the characteristics of regular and chaotic pulsations and the nature of their mechanisms Chapter 6 deals with the processes in a laser accompanying the time variance of laser parameters Considerable attention is given to a laser response to weak low frequency modulation of the parameters The problems addressed therein are resonant modulation enhancement transition to the nonlinear regime chaotic response to periodic impact spike like generation due to variation of the cavity geometry and a laser rod temperature drift Laser behavior is subject to qualitative changes if its optical elements exhibit nonlinear properties The action of a saturable absorber which leads to a loss of laser stability and provides passive Q modulation is investigated To a much lesser degree the researchers attention has been attracted by other nonlinear effects such as self focusing e g which may have a strong influence on laser dynamics All of these issues are covered in Chapter 7 The book is intended for researchers engineers graduate and post graduate students majoring in Theory of Semiconductor Lasers Minoru Yamada, 2014-05-01 This book provides a unified and quantum electronics complete theory for semiconductor lasers covering topics ranging from the principles of classical and quantum mechanics to highly advanced levels for readers who need to analyze the complicated operating characteristics generated in the real application of semiconductor lasers The author conducts a theoretical analysis especially on the instabilities involved in the operation of semiconductor lasers A density matrix into the theory for semiconductor lasers is introduced and the formulation of an improved rate equation to help understand the mode competition phenomena which cause the optical external feedback noise is thoroughly described from the basic quantum mechanics. The derivation of the improved rate equation will allow readers to extend the analysis for the different types of semiconductor materials and laser structures they deal with This book is intended not only for students and academic researchers but also for engineers who develop lasers for the market as the advanced topics covered are dedicated to real problems in implementing semiconductor lasers for practical use

<u>Principles of Free Electron Lasers</u> H. P. Freund, T. M. Antonsen, Jr., 2018-04-25 This book presents a comprehensive description of the physics of free electron lasers starting from the fundamentals and proceeding through detailed derivations of the equations describing electron trajectories and spontaneous and stimulated emission Linear and nonlinear analyses are described as are detailed explanations of the nonlinear simulation of a variety of configurations including amplifiers

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Fundamentals of Laser Dynamics Takov Izrailevich Khanin, 2006 The book explores the current state of laser dynamics and provides reference data and basic experimental facts for old and new generation lasers The most frequently used mathematical models are presented The author discusses the reasons for the spontaneous occurrence of pulsation of the intensity of radiation of solid state lasers and the influence of the non stationary nature of laser elements on lasing characteristics Special emphasis is placed on the problems of the low frequency dynamics of multimode lasers This book is aimed at experts in the fields of quantum electronics and laser physics

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