

Principles of Quantum Electronics Lasers

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Principles Of Quantum Electronics Lasers

V. M. Fain, Ya. I. Khanin



Principles Of Quantum Electronics Lasers:

Principles of Quantum Electronics: Lasers William Shen-chie Chang, 1969 Problems after each chapter
Principles of Quantum Electronics William Shen-chie Chang, 1969 *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 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 Theory of Semiconductor Lasers Minoru Yamada, 2014-05-01 This book provides a unified and 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

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 multiple quantum well lasers 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 quantum wire and quantum dot

3 **Principles of Lasers** Orazio Svelto, 2010-03-16 This fifth edition of Principles of Lasers includes corrections to the previous edition as well as being the first available as an ebook Its mission remains to provide a broad unified description of laser behavior physics technology and applications Principles of Free Electron Lasers Henry P. Freund, T.M. Antonsen, Jr., 2023-09-19 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 oscillators self amplified spontaneous emission high gain harmonic generation and optical klystrons Theory and simulation are anchored using comprehensive comparisons with a wide variety of experiments

Principles of Free-Electron Lasers H. P. Freund, 2012-12-06 At the time that we decided to begin work on this book several other volumes on the free electron laser had either been published or were in press The earliest work of which we were aware was published in 1985 by Dr T C Marshall of Columbia University 1 This book dealt with the full range of research on free electron lasers including an overview of the extant experiments However the field has matured a great deal since that time and in our judgement the time was ripe for a more extensive work which includes the most recent advances in the field The fundamental work in this field has largely been approached from two distinct and unfortunately separate viewpoints On the one hand free electron lasers at sub millimetre and longer wavelengths driven by low energy and high current electron beams have been pursued by the plasma physics and microwave tube communities This work has confined itself largely to the high gain regimes in which collective effects may play an important role On the other hand short wavelength free electron lasers in the infrared and optical regimes have been pursued by the accelerator and laser physics community Due to the high energy and low current electron beams appropriate to this spectral range these experiments have operated largely in the low gain single particle regimes The most recent books published on the free electron laser by Dr C A

Introduction to Quantum Electronics H. G. Unger, 2017-05-04 Introduction to Quantum Electronics is based on a one semester lecture of electrical engineering for German students The book is an introduction to the fundamentals of lasers and masers and a presentation of the principles of physics their theory and methods of analysis that seek to analyze explain and quantify related important phenomena The properties of a laser is then discussed the author comparing it to the properties of the maser Although masers are based on the same physical properties as that of the lasers masers amplify microwaves by induced emission How the laser is amplified its power and frequency of oscillation and which media are suitable for lasers are analyzed Descriptions of the laser take more emphasis as it is considered to have more technical applications than the maser An example given is the operation of the gas laser because it exhibits coherence in time and space considered as the

most important quality of laser beams Physicists students and academicians in the field of electrical engineering and quantum electronics will find that this book addresses many of their interests Quantum Well Lasers Peter S. Zory,1993-04-13 Provides information on all aspects of QW lasers from the basic mechanism of optical gain through the current technological state of the art to the future technologies of quantum wires and quantum dots Those working with lasers especially semiconductor lasers should find the book useful Handbook of Laser Technology and Applications Colin. E. Webb,2020-09-29 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies *Principles of Lasers and Optics* William S. C. Chang,2005-01-20 Principles of Lasers and Optics first published in 2005 describes both the fundamental principles of the laser and the propagation and application of laser radiation in bulk and guided wave components All solid state gas and semiconductor lasers are analysed uniformly as macroscopic devices with susceptibility originated from quantum mechanical interactions to develop an overall understanding of the coherent nature of laser radiation Analyses of the unique properties of coherent laser light in bulk and guided wave components are presented together and derived from fundamental principles to allow students to appreciate the differences and similarities Topics covered include discussions on how laser radiation should be analysed the macroscopic differences and similarities of various

analyses special techniques types of lasers and setting up laser analyses This text will be useful for first year graduates in electrical engineering and physics and also as a reference book on analytical techniques

Principles of Laser Dynamics Y.I. Khanin, 2012-12-02 This monograph summarizes 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 quantum electronics

Laser Principles, Technology, and Applications University of Texas. Quantum Electronics Research Laboratory, R. B. Allen, 1966

Principles Of Semiconductor Laser Diodes And Amplifiers: Analysis And Transmission Line Laser Modeling Hooshang Ghafouri-shiraz, 2003-12-15 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes amplifiers and filters with optical waveguide technology This well researched volume traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems This book will provide engineering and science students with a basic understanding of laser diode and optical amplification through the analysis of the performance characteristics of these devices both in theory and application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this book an invaluable reference a

Lasers: Principles, Types and Applications K. R. Nambiar, 2006 This Book On Lasers Is The Culmination Of Several Years Of Relentless Personal Research Exhaustive Literature Survey Critical Analysis Of All The Facets Of The Subject And Interactions With The Subject Experts And Students In India And Abroad By The Author This Book Has Been Very Systematically Structured And Organised The

Subject Has Been Divided Into Three Parts Part A Deals With All The Established Principles And Theories Of Laser Science Prefixed With A Journey Through The Relevant Areas Of Optics And Modern Physics Part B Presents A Galaxy Of All The Available Laser Schemes Of The Day With A Peep Into The Future Part C Deals With The Myriads Of Applications Of This Wonder Beam In Every Walk Of Life While Giving An Exhaustive Account About Lasers The Book Also Covers All The Relevant Aspects Of Related Subjects Such As Fibre Optics Holography Laser Safety Etc Apart From The Excellent Presentation Of The Topics As They Unfold This Book Contains A Rich Fund Of Worked Out Examples And Student Exercises With Answers The Language Is Simple And Reader Friendly The Treatise Logical And Even The Intricate Mathematical Derivations And Clear And Lucid This Book Is Meant To Be A Very Valuable Guide To Students At Graduate And Postgraduate Levels And To Those Working Or Intending To Work In The Field Of Lasers To Add To What They Already Know This Is Perhaps The Only Book At Present On Lasers By An Indian Author With Such A Vast Coverage Of The Subject Itself And The Associated Disciplines

Quantum Electronics V. M. Fain, Ya. I. Khanin, 2016-04-20 Quantum Electronics Volume 2 Maser Amplifiers and Oscillators deals with the experimental and theoretical aspects of maser amplifiers and oscillators which are based on the principles of quantum electronics It shows how the concepts and equations used in quantum electronics follow from the basic principles of theoretical physics Comprised of three chapters this volume begins with a discussion on the elements of the theory of quantum oscillators and amplifiers working in the microwave region along with the practical achievements in this field Attention is paid to two level paramagnetic masers and the dependence of the form of the emitted signal on the different parameters The maser oscillator operating with a beam of active molecules is described in the next chapter which considers the three level paramagnetic oscillator the molecular beam oscillator and the two level solid state quantum oscillator The final chapter is devoted to lasers including gas lasers and solid state lasers Methods of obtaining negative temperatures are described together with the elements of laser theory and the kinetics of oscillation processes in solid state lasers This book is intended for university students with knowledge of theoretical physics particularly quantum mechanics

Dye Laser Principles Frank J. Duarte, Lloyd W. Hillman, 2012-12-02 A tutorial introduction to the field of dye lasers Dye Laser Principles also serves as an up to date overview for those using dye lasers as research and industrial tools A number of the issues discussed in this book are pertinent not only to dye lasers but also to lasers in general Most of the chapters in the book contain problem sets that expand on the material covered in the chapter Dye lasers are among the most versatile and successful laser sources currently available in use Offering both pulsed and continuous wave operation and tunable from the near ultraviolet to the near infrared these lasers are used in such diverse areas as industrial applications medical applications military applications large scale laser isotope separation fundamental physics spectroscopic techniques laser radar

NASA Thesaurus, 1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved

Handbook of Laser Technology and Applications Colin Webb, Julian D.C.

Jones,2020-09-29 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies

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