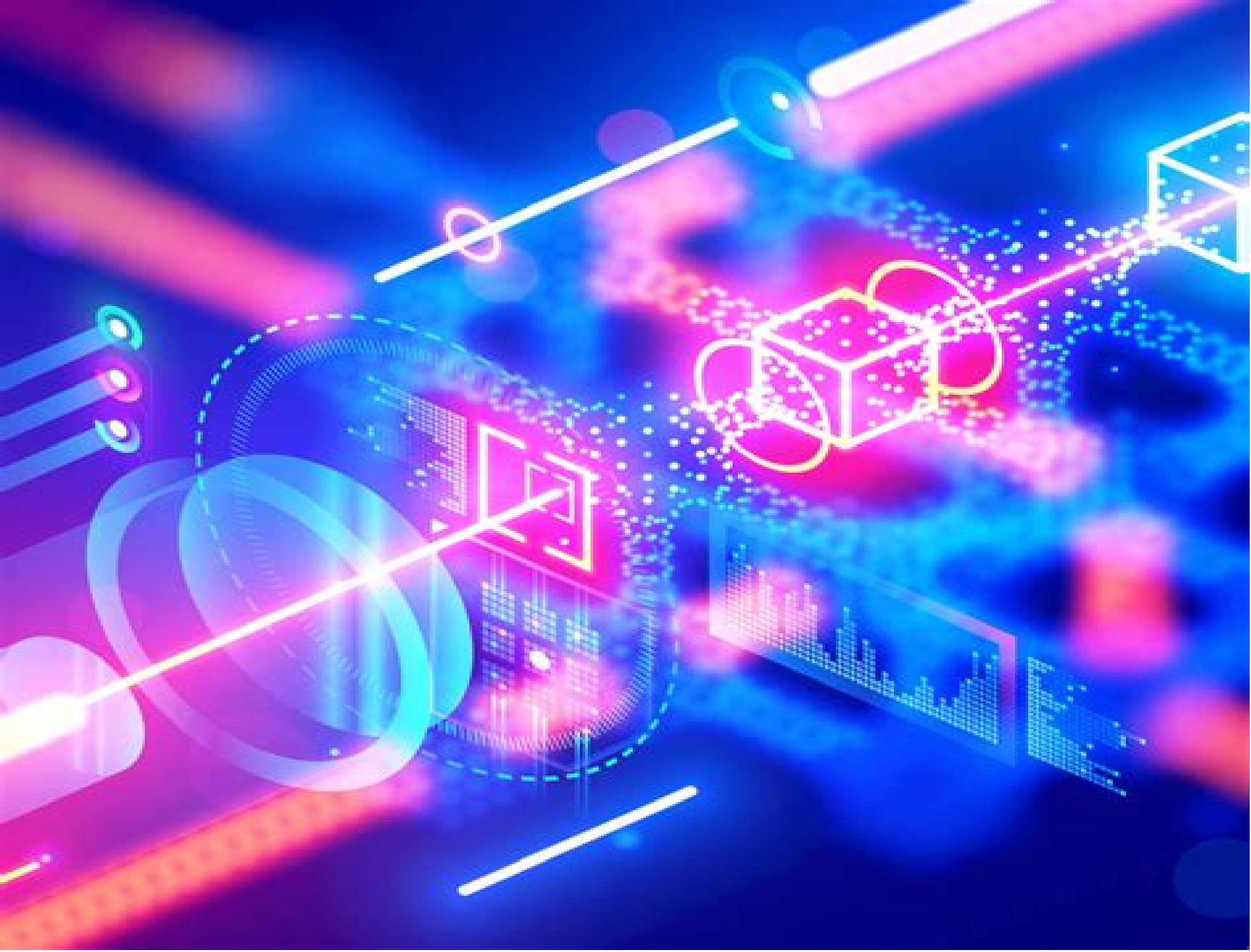




Quantum Electronics

N Colangelo



Quantum Electronics:

Introduction to Quantum Electronics and Nonlinear Optics Vitaliy V. Shtykov, Sergey M. Smolskiy, 2020-03-21 This textbook based on the authors class tested material is accessible to students at the advanced undergraduate and graduate level in physics and engineering While its primary function is didactic this book s comprehensive choice of topics and its clear and authoritative synthesis of ideas make it a useful reference for researchers device engineers and course instructors who wish to consolidate their knowledge of this field The book takes the semi classical approach where light is treated as a wave in accordance with the classical Maxwell equations while matter is governed by quantum theory It begins by introducing the postulates and mathematical framework of quantum theory followed by the formalism of the density matrix which allows the transition from microscopic quantum quantities to macroscopic classical ones Consequently the equations describing the reaction of matter to the electromagnetic field in the form of polarization magnetization and current are derived These equations together with the Maxwell equations form the complete system of equations sufficient to model a wide class of problems surrounding linear and nonlinear interactions of electromagnetic fields with matter The nonlinear character of the governing equations determines parameters of the steady state mode of the quantum generator and is also demonstrated in harmonic generation via propagation of laser radiation in various media The touchstone description of magnetic phenomena will be of interest to scientists who deal with applications of magneto resonance phenomena in biology and medicine Other advanced topics covered include electric dipole transitions magnetic dipole transitions plasma transitions and the devices that can be based on these and other electro optical and nonlinear optical systems This textbook features numerous exercises some of which are investigatory and some of which require computational solutions

Physical Foundations of Quantum Electronics David Nikolaevich Klyshko, Maria Chekhova, Sergey Kulik, 2011 A textbook that introduces a graduate student to the various fields of physics related to the interaction between radiation and matter It emphasizes analogies and relations between seemingly different phenomena and different fields of quantum electronics

Grundlagen der Photonik Bahaa E. A. Saleh, Malvin Carl Teich, 2008-05-05 Schon die erste Auflage des englischen Lehrbuchs Fundamentals of Photonics zeichnete sich durch seine ausgewogene Mischung von Theorie und Praxis aus und deckte in detaillierter Darstellung die grundlegenden Theorien des Lichts ab Es umfasste sowohl die Themen Strahlenoptik Wellenoptik elektromagnetische Optik Photonenoptik sowie die Wechselwirkung von Licht und Materie als auch die Theorie der optischen Eigenschaften von Halbleitern Die Photonik Technologie hat eine rasante Entwicklung genommen seit der Publikation der ersten Ausgabe von Fundamentals of Photonics vor 15 Jahren Die nun vorliegende Zweite Auflage des Marksteins auf dem Gebiet der Photonik tr gt mit zwei neuen und zus tzlichen Kapiteln den neuesten technologischen Fortschritten Rechnung Photonische Kristalle sowie Ultrakurzpuls Optik Zudem wurden alle Kapitel gr ndlich bearbeitet und viele Abschnitte hinzugef gt so z B ber Laguerre Gauss Strahlen die Sellmeier Gleichung Photonenkristall Wellenleiter photonische Kristallfasern Mikrosph ren

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parameters and the reasons behind them as well as their effects and consequences on system performance which are essential for proper component design Further a fundamental understanding of RF digital circuit design and linear and nonlinear phenomena is important in order to achieve the desired performance levels Becoming familiar with solid state devices and passives used to build optical receivers and transmitters is also important so one can effectively overcome design limitations

Optical Beam Propagation in Turbulent Media Ronald Louis Fante,1975 The most recent developments on the propagation of microwave and optical beams in turbulent media such as the clear atmosphere are discussed Among the phenomena considered are beam spreading beam wander loss of coherence scintillations angle of arrival variations and short pulse effects Also included is a discussion of methods of compensation of the effect of turbulence on communications and imaging systems *The Laser Literature* Kiyo Tomiyasu,2013-11-09

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

Theorie und Simulation des Doppelstreifen-Lasers Miguel Ángel Palacios Lázaro,2011-01-13 In der heutigen Welt ist der Informationsaustausch einer der st rksten Motoren der Wirtschaft und der Entwicklung der Gesellschaft Dementsprechend spielt die Kommunikationstechnik eine immer wichtigere und bedeutendere Rolle im Bereich der Forschung der Technik und der Ausbildung Neue Systeme werden entwickelt die existierenden werden st ndig verbessert und ihre Daten bertragungsgeschwindigkeit berschreitet weitere Grenzen Diese Prozesse sind die Antwort auf den w chsenden Bedarf an technischen L sungen die das Wachstum der oben genannten wirtschaftlichen und technologischen Welt unterst tzen Unter diesen L sungen sind optische bertragungssysteme diejenigen die h chste Geschwindigkeiten zur Daten bertragung erm glichen Auf sehr langen Strecken k nnen optische Fasern analoge sowie digitale Information bertragen Der Einsatz von optischen Verst rkern EDFA hat den Umfang dieses Informationsaustausches auf bisher unbekannte Gr e gebracht Als Quelle dieser Systeme werden Laserdioden verwendet die mit den unterschiedlichsten Technologien entworfen und aufgebaut werden k nnen Diese Dioden Fabry P rot und DFB Laserdiode Homo bergang Hetero bergang und Quantenbrunnenlaserdiode werden meist mit modulierten Str men angeregt sodass die Information im Basisband bertragen wird Der Einsatz dieser Quellen zur Erzeugung von Mikrowellenund

Millimeterwellenoszillationen ist jedoch ein weniger bekanntes Anwendungsgebiet Doppelstreifen Laser sind Halbleiterstrukturen in denen nicht nur eine aktive Schicht sondern zwei parallele aktive Streifen vergraben sind Die Existenz dieser zwei aktiven Bereiche ermöglicht das Entstehen einer Schwingung des vom Halbleiter abgestrahlten Lichts Dieses Licht kann unter bestimmten Bedingungen moduliert oder als Mikrowellen bzw Millimeterwellenoszillator benutzt werden Diese Arbeit befasst sich mit dieser Art von Strukturen Die Einleitung der Arbeit stellt die Prinzipien der Erzeugung kohärenten Lichts vor sowie die meist verbreiteten Arten von Laserdioden Daraufgehend werden die theoretischen Grundlagen der Arbeit präsentiert Das Ziel unserer Forschung ist die Entwicklung einer Modellierung die zum theoretischen Begreifen des Doppelstreifen Lasers beiträgt Dieses Verständnis soll zur Optimierung dieser Struktur führen Die Erzeugung einer rauscharmen Oszillation im Bereich von Gigahertz ist der endgültige Zweck der Optimierung Diese Arbeit geht von der Anwendung eines Wanderwellenmodells aus Herkömmliche Modellierungen wurden jedoch auf die Simulation von gewöhnlichen Lasern mit einem einzigen aktiven Streifen angewendet Auf der Theorie dieser Modelle basierend wurde ein Wanderwellenmodell für Doppelstreifen Laser entwickelt Das Entstehen von zwei gleichzeitig existierenden lateralen Moden als symmetrische bzw antisymmetrische Mode bezeichnet die leicht unterschiedliche Brechungsindizes aufweisen ermöglicht die Erzeugung der angestrebten Oszillation Unseren Überlegungen zu Folge sind zwei nachrichtentechnische Anwendungen dieses Phänomens von Bedeutung Ein Laser kann nur im Basisband moduliert werden Wird eine vom Bauteil abhängende Frequenz erreicht fällt die Leistung des Lichts stark ab Die Bandbreite der modulierenden Signale kann aus diesem Grund nur einige Gigahertz betragen Die Erzeugung einer Oszillation im Bereich von Gigahertz ermöglicht jedoch die Modulation des Lasers um diese Schwingung was eine zusätzliche Bandbreite zur Signalübertragung bietet wie diese Arbeit bewiesen hat Eine besonders wichtige Anwendung eines Doppelstreifen Lasers kann durch die Optimierung der erzeugten Oszillation erreicht werden Dies führt zu einer rauscharmen Schwingung die eine sehr niedrige Linienbreite aufweist Solche Oszillationen können als Mikro und Millimeterwellenquellen zum Einsatz kommen die über lange Strecken mittels Glasfaser übertragen und verteilt werden was aus nachrichtentechnischer Sicht sehr attraktiv ist Solche engen Linienbreiten können bisher nur mittels komplizierter Systeme z.B. über optische Injektion erreicht werden Die vorliegende Arbeit hat gezeigt dass die dem Doppelstreifen Laser inhärente optische Kopplung eine technisch machbare Reduktion der Linienbreite ermöglicht Die Erweiterung des Wanderwellenmodells und die theoretische Erklärung der zweiten der oben genannten Anwendungen bilden die wichtigsten Ergebnisse der vorliegenden Arbeit die zu einer zukünftigen praktischen Entwicklung solcher Quellen als Grundlage dienen können

Physics of Semiconductor Lasers B. Mroziwicz, M. Bugajski, W. Nakwaski, 2017-01-31
 Written for readers who have some background in solid state physics but do not necessarily possess any knowledge of semiconductor lasers this book provides a comprehensive and concise account of fundamental semiconductor laser physics technology and properties The principles of operation of these lasers are therefore discussed in detail with the interrelations

between their design and optical electrical and thermal properties The relative merits of a large number of laser structures and their parameters are described to acquaint the reader with the various aspects of the semiconductor lasers and the trends in their development **Lasers and Masers** ,1966 **Photonic Devices** Jia-ming Liu,2009-06-11 Photonic devices lie at the heart of the communications revolution and have become a large and important part of the electronic engineering field so much so that many colleges now treat this as a subject in its own right With this in mind the author has put together a unique textbook covering every major photonic device and striking a careful balance between theoretical and practical concepts The book assumes a basic knowledge of optics semiconductors and electromagnetic waves Many of the key background concepts are reviewed in the first chapter Devices covered include optical fibers couplers electro optic devices magneto optic devices lasers and photodetectors Problems are included at the end of each chapter and a solutions set is available The book is ideal for senior undergraduate and graduate courses but being device driven it is also an excellent engineers reference **Handbook of Nanophysics** Klaus D. Sattler,2010-09-17 Many bottom up and top down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics Handbook of Nanophysics Nanoelectronics and Nanophotonics explores important recent applications of nanophysics in the areas of electronics and photonics Each peer reviewed c **Progress in Optics** ,1988-05-01 This volume is a jubilee issue and contains some specially designed computer generated holograms for this occasion together with a description of how to obtain the holographic effect **Optical Chemical Sensors** F. Baldini,A.N. Chester,J. Homola,S. Martellucci,2006-04-19 This book covers optical chemical sensing by means of optical waveguides from the fundamentals to the most recent applications The book includes a historical review of the development of these sensors from the earliest laboratory prototypes to the first commercial instrumentations The book reprints a lecture by the Nobel Laureate Charles Townes on the birth of maser and laser which lucidly illustrates the development of new science and new technology

Semiconductor Lasers Alexei Baranov,Eric Tournié,2013-04-23 Semiconductor lasers have important applications in numerous fields including engineering biology chemistry and medicine They form the backbone of the optical telecommunications infrastructure supporting the internet and are used in information storage devices bar code scanners laser printers and many other everyday products Semiconductor lasers Fundamentals and applications is a comprehensive review of this vital technology Part one introduces the fundamentals of semiconductor lasers beginning with key principles before going on to discuss photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Part two then reviews applications of visible and near infrared emitting lasers Nonpolar and semipolar GaN based lasers advanced self assembled InAs quantum dot lasers and vertical cavity surface emitting lasers are all considered in addition to semiconductor disk and hybrid silicon lasers Finally applications of mid and far infrared emitting lasers are the focus of part three Topics covered include GaSb based type I quantum well diode

lasers interband cascade and terahertz quantum cascade lasers whispering gallery mode lasers and tunable mid infrared laser absorption spectroscopy With its distinguished editors and international team of expert contributors Semiconductor lasers is a valuable guide for all those involved in the design operation and application of these important lasers including laser and telecommunications engineers scientists working in biology and chemistry medical practitioners and academics working in this field Provides a comprehensive review of semiconductor lasers and their applications in engineering biology chemistry and medicine Discusses photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Reviews applications of visible and near infrared emitting lasers and mid and far infrared emitting lasers Masers and Lasers Mario Bertolotti, 2015-03-13 Masers and Lasers An Historical Approach examines the progress of research and practical use of lasers chronologically covering the fundamental science in detail alongside fascinating biographical sketches of famous physicists and summaries of seminal papers It supplies helpful drawings of prototype devices conceptual diagrams to aid in underst

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