Electromagnetics Explained

A Handbook for Wireless/RF, EMC, and High-Speed Electronics

Ron Schmitt



High Speed Electronics Basic Physical

Lawrence B. Schein

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High Performance Logic And Circuits For High-speed Electronic Systems Faguir C Jain, C Broadbridge, M Gherasimova, Hong Tang, 2019-06-27 In this volume we have put together papers spanning a broad range from the area of modeling of strain and misfit dislocation densities microwave absorption characteristics of nanocomposites to X ray diffraction studies Specific topics in this volume include In summary papers selected in this volume cover various aspects of high performance logic and circuits for high speed electronic systems Ultra-Fast Silicon Bipolar Technology Ludwig Treitinger, Mitiko Miura-Mattausch, 2013-03-13 Since the first bipolar transistor was investigated in 1947 enormous efforts have been devoted to semiconductor devices The strong world wide competition in fabricating metal oxide semiconductor field effect of develop transistor MOSFET memories has accelerated the pace ments in semiconductor technology Bipolar transistors play a major role due to their high speed performance Delay times of about 20 ps per gate have already been achieved Because of this rapid technological progress it is difficult to predict the future with any certainty In 1987 a special session on ultrafast bipolar transistors was held at the European Solid State Device Research Conference Its aim was to sum marize the most recent developments and to discuss the future of bip olar transistors This book is based on that session but also includes contributions by other participants such that a broad range of up to is presented Several conclusions can be drawn from date information this information the first and most important is the very large potential for future progress still existing in this field This progress is char acterized by the drive towards higher speed and lower power con sumption required for complex single chip systems as well as by sev eral concrete technological implementations for fulfilling these dem is that a large part of this potential can be and The second conclusion realized by rather unsophisticated techniques and configurations well suited to uncomplicated transfer to fabrication Physics of Quantum Electron Devices Federico Capasso, 2013-03-07 The ability to engineer the bandstructure and the wavefunction over length scales previously inaccessible to technology using artificially structured materials and nanolithography has led to a new class of electron semiconductor devices whose operation is controlled by quantum effects These structures not only represent exciting tools for investigating new quantum phenomena in semiconductors but also offer exciting opportunities for applications This book gives the first comprehensive treatment of the physics of quantum electron devices This interdisciplinary field at the junction between material science physics and technology has witnessed an explosive growth in recent years This volume presents a detailed coverage of the physics of the underlying phenomena and their device and circuit applications together with Femtosecond Technology T. Kamiya, F. Saito, O. Wada, H. Yajima, 2012-12-06 Recent fabrication and growth technology rapid advances in femtosecond technology have had a great impact on their industrial applications such as ultrafast optoelectronic devices and optical telecommunication systems ultrashort pulse lasers and measurement systems and the development of novel materials for ultrafast functions In this book a wealth of knowledge covering requirements in

applications details of recent achievements in important technical areas is presented by world prominent authors in a concise systematic form As a whole this is the first comprehensive book on the emerging field of femtosecond technology

Silicon-Based Millimeter-Wave Devices Johann-Friedrich Luy, Peter Russer, 2013-03-07 Silicon Based Millimeter Wave Devices describes field theoretical methods for the design and analysis of planar waveguide structures and antennas The principles and limitations of transit time devices with different injection mechanisms are discussed as are aspects of fabrication and characterization The physical properties of silicon Schottky contacts and diodes are treated in a separate chapter Two chapters cover the silicon germanium devices physics and RF properties of the heterobipolar transistor and quantum effect devices such as the resonant tunneling element are described The integration of devices in monolithic circuits is explained and advanced technologies are presented along with the self mixing oscillator operation Finally sensor and system applications are considered Single-Electron Tunneling and Mesoscopic Devices Hans Koch, K.v. Klitzing, Heinz Lübbig, 2012-12-06 Single electron tunneling SET and related phenomena have recently come to be considered as hot topics This also became apparent when we organized the 4th International Conference on Superconducting and Quantum Effect Devices and Their Applications SQUID 91 which was held June 18 21 1991 in Berlin Germany Impressed by the number of contributions dedicated to the new physics of ultrasmall devices we deemed it appropriate to devote this volume of the Springer Series in Electronics and Photonics to these specialized proceedings The other contributions presented at SQUID 91 which are more conventional in character but nevertheless contain excitingly innovative results are published separately as Volume 64 of the series Springer Proceedings in Physics At first glance it seems strange that a conference abbreviated SQUID 91 should attract so many papers on non superconducting devices and in fact the first SQUID XX conferences dealt exclusively with the physics and technology of Josephson junctions SQUIDs and other superconducting devices and their ap plications However many concepts developed for superconducting devices like tunneling flux quantization and flux charge conjugation appeared to be suitable for ultrasmall non superconducting structures as well and many researchers in the field of superconducting devices extended their activities accordingly Thus the extension of the conference programme evolved quite informally Meanwhile the meetings established themselves as well known conference series tradition ally appreciated by the SQUID community for its balanced mixture of physics and technology review and preview SQUID XX became a kind of High-Speed Electronics Bengt Källbäck, Heinz Beneking, 2013-03-08 In the past a number of Satellite a trademark Conferences have been held in con nection with the International Conference on Physics of Semiconductors covering selected fields of interest In 1986 when the main conference was held in Stockholm Sweden new phenomena had to be discussed super lattices hot electron phenomena and new device structures for high speed applications. The aim was to select topics which would be of interest to physicists as well as to electronics engineers Therefore a Satellite Con ference on H gh Speed Electronics Basic Physical Phenomena and Device Principles was arranged at Saltjobaden a coastal resort near

Stockholm An organizing committee was established after the first suggestion made by Professor Grimmeiss from the University of Lund Sweden and some preliminary discussions on the Conference format A Program Committee was established to be responsible for the further selection of the invited talks the regular papers and poster presentation. The aim was to have a broad spectrum of contributions to attract physicists as well as device oriented engineers and to stimulate discussions among the participants These Proceedings contain all oral and poster presentations with emphasis on the invited talks which give a competent overview of the field The fast publication by Springer Verlag has permitted the presentation of an up to date survey of the principles of high speed electronics Incorpo ration in the Springer Series in Electronics and Photonics will enable the book to be distributed worldwide and to reach all interested scientists **Nonlinear Photonics** Hyatt M. Gibbs, Galina Khitrova, Nasser Peyghambarian, 2012-12-06 Nonlinear photonics is the name given to the use of nonlinear optical devices for the generation communication processing or analysis of information This book is a progress report on research into practical applications of such devices At present modulation switching routing decision making and detection in photonic systems are all done with electronics and linear optoelectronic devices However this may soon change as nonlinear optical devices e g picosecond samplers and switches begin to complement optoelectonic devices The authors succinctly summarize past accomplishments in this field and point to hopes for the future making this an ideal book for newcomers or seasoned researchers wanting to design and perfect nonlinear optical devices and to identify applications in photonic systems **Compound Semiconductor Device Physics** Sandip Tiwari, 2013-10-22 This book provides one of the most rigorous treatments of compound semiconductor device physics yet published A complete understanding of modern devices requires a working knowledge of low dimensional physics the use of statistical methods and the use of one two and three dimensional analytical and numerical analysis techniques With its systematic and detailed discussion of these topics this book is ideal for both the researcher and the student Although the emphasis of this text is on compound semiconductor devices many of the principles discussed will also be useful to those interested in silicon devices Each chapter ends with exercises that have been designed to reinforce concepts to complement arguments or derivations and to emphasize the nature of approximations by critically evaluating realistic conditions. One of the most rigorous treatments of compound semiconductor device physics yet published Essential reading for a complete understanding of modern devices Includes chapter ending exercises to facilitate understanding Guided-Wave Acousto-Optics Chen S. Tsai, 2013-12-01 The field of integrated or guided wave optics has experienced significant and continuous growth since its inception in the late 1960s There has been a considerable increase in research and development activity in this field worldwide and some significant advances in the realization of working in tegrated optic devices and modules have been made in recent years In fact there have already been some commercial manufacturing and technical applications of such devices and modules The guided wave acoustooptics involving Bragg interactions between guided optical waves and surface acoustic waves is one of the areas of in

tegrated optics that has reached some degree of scientific and technological maturity. This topical volume is devoted to an in depth treatment of this emerging branch of science and technology Presented in this volume are concise treatments on bulk wave acoustooptics guided wave optics and surface acoustic waves and detailed studies of guided wave acoustooptic Bragg diffraction in three promising material substrates namely LiNb0 3 ZnO Si0 and GaAs the resulting wide band modulators and deflectors 2 and applications. The chapters cover not only the basic principles and the oretical analysis but also the design fabrication and measurement of the resulting devices and modules and their applications Electrophotography and Development Physics Lawrence B. Schein, 2013-03-07 Electrophotography and Development Physics focuses on the complicated and increasingly important technology found in photocopiers and laser printers An introduction chapter acquaints the reader with the technical history of electrophotography its current and projected markets and also alternative related copying and printing technologies A concise description of the physics of the complete electrophotgraphic process is followed by an in depth treatment of static electricity. The three types of developments ystems two component monocomponent and liquid and their associated charging mechanisms In this second edition a discussion of the new color copiers and a chapter updating the original material have been added On mastering this material which is presented in a manner suitable for both the newcomer and the established expert the reader will have a workingknowledge of the electrophotographic process and a detailed knowledge of its important subsystem development Gate Dielectrics and MOS ULSIs Takashi Hori, 2012-12-06 Gate Dielectrics and MOS ULSIs provides necessary and sufficient information for those who wish to know well and go beyond the conventional SiO2 gate dielectric The topics particularly focus on dielectric films satisfying the superior quality needed for gate dielectrics even in large scale integration And since the quality requirements are rather different between device applications they are selected in an application oriented manner e.g. conventional SiO2 used in CMOS logic circuits nitrided oxides which recently became indispensable for flash memories and composite ONO and ferroelectric films for passive capacitors used in DRAM applications The book also covers issues common to all gate dielectrics such as MOSFET physics evaluation scaling and device application integration for successful development The information is as up to date as possible especially for nanometer range ultrathin gate dielectric films indispensible in submicrometer ULSIs The text together with abundant illustrations will take even the inexperienced reader up to the present high state of the art It is the first book presenting nitrided gate oxides in detail **Guided-Wave Optoelectronics** Theodor Tamir, 2013-03-08 The first guided wave components that employed signals in the form of light beams traveling along thin films were fabricated a little more than two decades ago The parallel development of semiconductor lasers and the subsequent availability of low loss optical fibers made possible the imple mentation of completely optical systems for communications signal pro cessing and other applications that had used only electronic circuitry in the past Referred to as integrated optics this technology has been rein forced by utilizing electronic components that act as controlling elements or

perform other functions for which the optical counterparts are not as effective The broader area thus generated was aptly named optoelectronics and it currently represents a fascinating rapidly evolving and most promising technology Specifically the amalgamation of electronic and optics components into an integrated optoelectronics format is expected to provide a wide range of systems having miniaturized high speed broad band and reliable components for telecommunications data processing optical computing and other applications in the near and far future This book is intended to cover primarily the optical portion of the op toelectronics area by focusing on the theory and applications of components that use guided optical waves Hence all aspects of integrated optics are discussed but optoelectronic components having primarily electronic rather than optical functions have not been included Each chapter has been writ ten by experts who have actively participated in developing the specific areas addressed by them **Photonic Switching II** Kunio Tada, H. Scott Hinton, 2012-12-06 The 1990 International Topical Meeting on Photonic Switching was held April 12 14 1990 in Kobe Japan in conjunction with the 1990 International Meet ing on Optical Computing It was sponsored by the Institute of Electronics Information and Communication Engineers in cooperation with the IEEE Lasers and Electro Optics Society the Optical Society of America and the Japan So ciety of Applied Physics The attendance was in excess of 340 persons with 18 countries represented a testimony to the current international interest in photonic switching This book contains expanded and more detailed versions of most of the papers presented at the topical meeting With the success of optical fibers there is an increased demand for a switch ing system that can operate directly on the light present in the fibers The goal is to reduce the total number of optical to electrical and electrical to optical transformations as far as possible in addition to exploiting the large spec tral and temporal bandwidth offered by such an optically transparent system *Photonic Switching* T. Kenneth Gustafson, Peter W. Smith, 2012-12-06 The first topical meeting on Photonic Switching was held March 18 20 1987 in Incline Village Nev USA in conjunction with the second topical meeting on Optical Computing It was sponsored by the IEEE Lasers and Electro Optics Society and the Optical Society of America with the co operation of the IEEE Communications Society The attendance at these meetings was well in excess of 500 persons a measure of the growing worldwide interest in optical techniques for switching and signal process ing Our goal in organizing the Photonic Switching meeting was to provide a forum for the presentation of original papers on the subjects of devices and architectures suitable for switching multiplexing or routing of optical signals The purpose of the meeting was to foster and enhance interaction between two groups that share a common interest in exploring possible applications of photonic switching technology people working on optical switching devices and components and people working on future switching systems and networks Monolithic Diode-Laser Arrays Nils W. Carlson, 2012-12-06 Over the last two decades the search for a compact high power semiconductor source has produced many designs and concepts for monolithic diode laser arrays and optical amplifiers However only a few design approaches have emerged with the potential for producing high power high brightness monolithic sources Although semiconductor diode

lasers are the most compact highest gain and most efficient laser sources challenges remain in developing structures that will produce high quality diffraction limited output beams This book presents and analyzes the results of work performed over the last twenty years in the development of high brightness diode laser arrays **Bibliography of Technical Reports** Atmospheric Sciences Research and Natural Resources ,1965 Critical Interfacial Issues in Thin-Film Optoelectronic and Energy Conversion Devices: Volume 796 Materials Research Society. Meeting, 2004-04-09 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Century of Electrical Engineering and Computer Science at MIT, 1882-1982 Karl L. Wildes, Nilo A. Lindgren, 1985 The book s text and many photographs introduce readers to the renowned teachers and researchers who are still well known in engineering circles Electrical engineering is a protean profession Today the field embraces many disciplines that seem far removed from its roots in the telegraph telephone electric lamps motors and generators To a remarkable extent this chronicle of change and growth at a single institution is a capsule history of the discipline and profession of electrical engineering as it developed worldwide Even when MIT was not leading the way the department was usually quick to adapt to changing needs goals curricula and research programs What has remained constant throughout is the dynamic interaction of teaching and research flexibility of administration the interconnections with industrial progress and national priorities The book s text and many photographs introduce readers to the renowned teachers and researchers who are still well known in engineering circles among them Vannevar Bush Harold Hazen Edward Bowles Gordon Brown Harold Edgerton Ernst Guillemin Arthur von Hippel and Jay Forrester The book covers the department's major areas of activity electrical power systems servomechanisms circuit theory communications theory radar and microwaves developed first at the famed Radiation Laboratory during World War II insulation and dielectrics electronics acoustics and computation This rich history of accomplishments shows moreover that years before Computer Science was added to the department s name such pioneering results in computation and control as Vannevar Bush s Differential Analyzer early cybernetic devices and numerically controlled servomechanisms the Whirlwind computer and the evolution of time sharing computation had already been achieved

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