

# CURRENT RESEARCH ON OPTICAL MATERIALS, DEVICES AND SYSTEMS IN TAIWAN

Editors

S. Chi & T. P. Lee

World Scientific



# Current Research On Optical Materials Devices And Systems In Taiwan

**N Colangelo**



## **Current Research On Optical Materials Devices And Systems In Taiwan:**

**Current Research On Optical Materials, Devices And Systems In Taiwan, Selected Topics In Electronics** Sien Chi, Tien Pei Lee, 1998-06-06 The electronics industry in Taiwan has shifted its emphasis from consumer to information based products It is enjoying the bulk of the world market in computer motherboards keyboards scanners and PC monitors Optoelectronics is a growing sub group within information based electronics In addition to the established areas other technologies such as optical storage optical signal processing optical switching and transmission are emerging Research efforts at universities and research institutions are strongly supported by the official bodies of the government The articles collected in this volume are contributed by the most active researchers in the area of optics and photonics in Taiwan The subject areas covered such as Optical Materials Devices and Systems are by no means representative of the breadth nor depth of optical research in Taiwan Instead they offer a snapshot of the ongoing work that will lead to success in the commercial world in future

**Advances in Semiconductor Lasers and Applications to Optoelectronics** Mitra Dutta, Michael A. Stroschio, 2000 Foreword by Charles H Townes This volume includes highlights of the theories underlying the essential phenomena occurring in novel semiconductor lasers as well as the principles of operation of selected heterostructure lasers To understand scattering processes in heterostructure lasers and related optoelectronic devices it is essential to consider the role of dimensional confinement of charge carriers as well as acoustical and optical phonons in quantum structures Indeed it is important to consider the confinement of both phonons and carriers in the design and modeling of novel semiconductor lasers such as the tunnel injection laser quantum well intersubband lasers and quantum dot lasers The full exploitation of dimensional confinement leads to the exciting new capability of scattering time engineering in novel semiconductor lasers As a result of continuing advances in techniques for growing quantum heterostructures recent developments are likely to be followed in coming years by many more advances in semiconductor lasers and optoelectronics As our understanding of these devices and the ability to fabricate them grow so does our need for more sophisticated theories and simulation methods bridging the gap between quantum and classical transport

*Frontiers in Electronics* Yoon-Soo Park, Michael Shur, William Tang, 2002 The 2002 Workshop on Frontiers in Electronics was the third in the series of WOFE workshops Over 70 leading experts from academia industry and government agencies reported on the most recent developments in their fields and exchanged views on future trends and directions of the electronics and photonics industry The issues they addressed ranged from system on chip to DNA doping from ultrathin SOI to electrotextiles from photonics integration on the ULSI platform to wide band gap semiconductor devices and solid state lighting The rapid pace of electronic technology evolution compels a merger of different technical areas and WOFE 02 provided a unique opportunity for cross fertilization of the emerging fields of microelectronics photonics and nanoelectronics The workshop was informal and stimulated provocative views visionary outlooks and discussions on controversial issues

**Oxide Reliability: A**

**Summary Of Silicon Oxide Wearout, Breakdown, And Reliability** David J Dumin,2002-01-18 This book presents in summary the state of our knowledge of oxide reliability The articles have been written by experts who are among the most knowledgeable in the field The book will be an invaluable aid to reliability engineers and manufacturing engineers helping them to produce and characterize reliable oxides It can be used as an introduction for new engineers interested in oxide reliability besides being a reference for engineers already engaged in the field

**Cmos Rf Modeling, Characterization And Applications** M Jamal Deen,Tor A Fjeldly,2002-04-10 CMOS technology has now reached a state of evolution in terms of both frequency and noise where it is becoming a serious contender for radio frequency RF applications in the GHz range Cutoff frequencies of about 50 GHz have been reported for 0.18  $\mu\text{m}$  CMOS technology and are expected to reach about 100 GHz when the feature size shrinks to 100 nm within a few years This translates into CMOS circuit operating frequencies well into the GHz range which covers the frequency range of many of today's popular wireless products such as cell phones GPS Global Positioning System and Bluetooth Of course the great interest in RF CMOS comes from the obvious advantages of CMOS technology in terms of production cost high level integration and the ability to combine digital analog and RF circuits on the same chip This book discusses many of the challenges facing the CMOS RF circuit designer in terms of device modeling and characterization which are crucial issues in circuit simulation and design

**High Speed Integrated Circuit Technology - Towards 100 Ghz Logic** Mark Rodwell,2001-04-24 This book reviews the state of the art of very high speed digital integrated circuits Commercial applications are in fiber optic transmission systems operating at 10, 40 and 100 Gb/s while the military application is ADCs and DACs for microwave radar The book contains detailed descriptions of the design, fabrication and performance of wideband Si, SiGe, GaAs and InP based bipolar transistors The analysis, design and performance of high speed CMOS, silicon bipolar and III-V digital ICs are presented in detail with emphasis on application in optical fiber transmission and mixed signal ICs The underlying physics and circuit design of rapid single flux quantum RSFQ superconducting logic circuits are reviewed and there is extensive coverage of recent integrated circuit results in this technology

[Advanced Semiconductor Heterostructures: Novel Devices, Potential Device Applications And Basic Properties](#) Michael A Strosio,Mitra Dutta,2003-09-12 This volume provides valuable summaries on many aspects of advanced semiconductor heterostructures and highlights the great variety of semiconductor heterostructures that has emerged since their original conception As exemplified by the chapters in this book recent progress on advanced semiconductor heterostructures spans a truly remarkable range of scientific fields with an associated diversity of applications Some of these applications will undoubtedly revolutionize critically important facets of modern technology At the heart of these advances is the ability to design and control the properties of semiconductor devices on the nanoscale As an example the intersubband lasers discussed in this book have a broad range of previously unobtainable characteristics and associated applications as a result of the nanoscale dimensional control of the underlying semiconductor heterostructures As this book

illustrates an astounding variety of heterostructures can be fabricated with current technology the potentially widespread use of layered quantum dots fabricated with nanoscale precision in biological applications opens up exciting advances in medicine In addition many more excellent examples of the remarkable impact being made through the use of semiconductor heterostructures are given The summaries in this volume provide timely insights into what we know now about selected areas of advanced semiconductor heterostructures and also provide foundations for further developments

**Quantum Dots** Elena Borovitskaya, Michael S Shur, 2002-07-08 In this book leading experts on quantum dot theory and technology provide comprehensive reviews of all aspects of quantum dot systems The following topics are covered 1 energy states in quantum dots including the effects of strain and many body effects 2 self assembly and self ordering of quantum dots in semiconductor systems 3 growth structures and optical properties of III nitride quantum dots 4 quantum dot lasers

**Index of Conference Proceedings** British Library. Document Supply Centre, 2003 *The Cumulative Book Index*, 1999 *Subject Guide to Books in Print*, 1991 American Book Publishing Record Cumulative 1998 R R Bowker Publishing, 1999-03 **Cumulated Index to the Books**, 1999 Journal of Current Laser Abstracts, 1989 **Optics Education**, 1995 Forthcoming Books Rose Army, 1998-04 **Who's who in European Research and Development**, 1997 **International Aerospace Abstracts**, 1999 **New Research Centers**, 2008 **National Science Council Review**, 2001

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