

Solid State Devices, 1979

Nine invited papers presented at the Ninth European Solid State Device Research Conference (ESSDERC) and the Fourth Symposium on Solid State Device Technology held at the Technical University of Munich, 10 - 14 September 1979

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Lasers and Applications W.O.N. Guimares,C.-T. Lin,A. Mooradian,2013-06-29 The International Conference on Lasers and Applications was held in Rio de Janeiro Brazil from 29 June to 3 July 1980 This conference was held to commemorate the memory of Professor Sergio Porto who died suddenly about one year earlier while attending a laser conference in the Soviet Union The subject matter covered the active areas of laser devices photochemistry non linear optics high resolution spectroscopy photokinetics photobiology photomedicine optical communication optical bistability and Raman spectroscopy The conference was attended by over 150 people including scientists from Japan France England West Germany Norway Italy Brazil Chile Argentina India Canada and the United States A memorial session attended by members of the Porto family and ranking Brazilian government dignitaries preceded the start of the conference The location of the conference in Rio de Janeiro Brazil was chosen because it was in the homeland of Sergio Porto and provided an opportunity for his friends colleagues and countrymen to pay homage to him The setting on Copacabana Beach afforded access to the lovely beaches restaurants and nightlife of one of the most beautiful and exciting cities of the world There were tours of the city together with a banquet that featured a performance by one of the best Samba Schools in Rio Financial support from many sponsors in Brazil and the United States is gratefully acknowledged in making this working conference a fitting tribute to the memory of Professor S P S Porto

The Physics of Submicron Semiconductor Devices Harold L. Grubin,David K. Ferry,C. Jacoboni,2013-11-11 The papers contained in the volume represent lectures delivered as a 1983 NATO ASI held at Urbino Italy The lecture series was designed to identify the key submicron and ultrasubmicron device physics transport materials and contact issues Nonequilibrium transport quantum transport interfacial and size constraints issues were also highlighted The ASI was supported by NATO and the European Research Office H L Grubin D K Ferry C Jacoboni v CONTENTS MODELLING OF SUB MICRON DEVICES 1 E Constant BOLTZMANN TRANSPORT EQUATION 33 K Hess TRANSPORT AND MATERIAL CONSIDERATIONS FOR SUBMICRON DEVICES 45 H L Grubin EPITAXIAL GROWTH FOR SUB MICRON STRUCTURES 179 C E C Wood INSULATOR SEMICONDUCTOR INTERFACES 195 C W Wilms en THEORY OF THE ELECTRONIC STRUCTURE OF SEMICONDUCTOR SURFACES AND INTERFACES 223 C Calandra DEEP LEVELS AT COMPOUND SEMICONDUCTOR INTERFACES 253 W Monch ENSEMBLE MONTE CARLO TECHNIQUES 289 C Jacoboni NOISE AND DIFFUSION IN SUBMICRON STRUCTURES 323 L Reggiani SUPERLATTICES 361 K Hess SUBMICRON LITHOGRAPHY 373 C D W Wilkinson and S P Beaumont QUANTUM EFFECTS IN DEVICE STRUCTURES DUE TO SUBMICRON CONFINEMENT IN ONE DIMENSION 401 B D McCombe vii viii CONTENTS PHYSICS OF HETEROSTRUCTURES AND HETEROSTRUCTURE DEVICES 445 P J Price CORRELATION EFFECTS IN SHORT TIME NONSTATISTICAL TRANSPORT 477 J J Niez DEVICE DEVICE INTERACTIONS 503 D K Ferry QUANTUM TRANSPORT

AND THE WIGNER FUNCTION 521 G J Iafrate FAR INFRARED MEASUREMENTS OF VELOCITY OVERSHOOT AND HOT ELECTRON DYNAMICS IN SEMICONDUCTOR DEVICES 577 S J Allen Jr **Physics Of Semiconductors, The - Proceedings Of The Xxi International Conference (In 2 Volumes)** Ping Jiang,Hou-zhi Zheng,1993-03-31 The 21st conference proceedings continue the tradition of the ICPS series The proceedings cover all aspects of semiconductor physics including those related to materials processing and devices Plenary and invited speakers address areas of major interest
□□□□□□□□□□□□□□□□□□□□□□□□ ,1990 **Photovoltaic Solar Energy Conference** Willeke Palz,2012-12-06 Proceedings of the International Conference held at Cannes France October 27 31 1980 *Extended Defects in Semiconductors* D. B. Holt,B. G. Yacobi,2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics
Solid state devices nineteenthundred seventy-nine 1979 ,1980 □□□□□□□□□□□□□□□□□□□□ □□□□□□□□ (Japan),1983
Physics Briefs ,1987 The Physics of Submicron Structures Harold L. Grubin,2012-12-06 Research on electronic transport in ultra small dimensions has been highly stimulated by the sensational developments in silicon technology and very large scale integration The papers in this volume however have been influenced to no lesser extent by the advent of molecular beam epitaxy and metal organic chemical vapor deposition which has made possible the control of semiconductor boundaries on a quantum level This new control of boundary conditions in ultra small electronic research is the mathematical reason for a whole set of innovative ideas For the first time in the history of semiconductors it is possible to design device functions from physical considerations involving ngstrom scale dimensions At the time the meeting was held July 1982 it was one of the first strong signals of the powerful developments in this area During the meeting important questions have been answered concerning ballistic transport Monte Carlo simulations of high field transport and other developments pertinent to new device concepts and the understanding of small devices from physics to function The committee members want to express their deep appreciation to the speakers who have made the meeting a success The USER project of DOD has been a vital stimulous and thanks go to the Army Research Office and the Office of Naval Research for financial support Urbana January 1984 K Hess Conference Chairman J R Brews L R Cooper Ex Officio D K Ferry H L

Staatsbibliothek Preussischer Kulturbesitz. Abteilung Gesamtkataloge und Dokumentation, 1982 *Gallium Arsenide* John Sydney Blakemore, 1987 Subject Catalog, 1979 Library of Congress, 1979 *Prozeßtechnologie* Günter Schumicki, Peter Seegebrecht, 2013-04-18 Prozeßtechnologie behandelt Fertigungsverfahren integrierter Schaltungen in CMOS Technologie Hierbei werden zunächst die Einzelprozesse behandelt die der Strukturerzeugung Strukturübertragung Schichtherzeugung und Schichtmodifikation zugerechnet werden Im Anschluß daran wird gezeigt wie Einzelprozesse zu einem Gesamtprozeß für die Herstellung von CMOS Schaltungen integriert werden Auf die Charakterisierung der Prozesse und die Entwicklung der Entwurfsregeln wird eingegangen Das Buch basiert auf dem reichen Erfahrungsschatz fertigungsorientierter Technologen

Physics of Semiconductor Devices J.-P. Colinge, C.A. Colinge, 2007-05-08 Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short channel effects low dimensional devices and single electron transistors Concepts are introduced to the reader in a simple way often using comparisons to everyday life experiences such as simple fluid mechanics They are then explained in depth and mathematical developments are fully described Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner National Union Catalog, 1981 Includes entries for maps and atlases **Current Engineering Practice**, 1983 日本電子工業会 (Japan), 1900

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