

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

Edited by H Weiss

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10th European Solid State Device Research Conference, ESSDERC 80, University of York, 15-18 September, 1980 ,1980

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 SUBMICRON 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 NONSTATIONARY 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

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 nonlinear 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 Amemorial 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 1985 **Photovoltaic Solar Energy Conference** Willeke Palz,2012-12-06 Proceedings of the International Conference held at Cannes France October 27 31 1980
 Subject Catalog, 1979 Library of Congress,1979 *Physics Briefs* ,1980 **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
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