

Physics Of Semiconductor Devices Michael Shur

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Physics of Semiconductor Devices Power Semiconductor Materials and Devices: Volume 483 Optoelectronic Integrated Circuit Materials, Physics, and Devices Modern Semiconductor Device Physics Introduction to Semiconductor Technology Proceedings of the ... IEEE International Caracas Conference on Devices, Circuits and Systems Proceedings ... IEEE/Cornell Conference on High Performance Devices IEEE Circuits & Devices Wide-Bandgap Electronic Devices: Volume 622 Optoelectronics, Materials, and Devices for Communications New Scientist and Science Journal New Scientist Digest of Technical Papers Compound Semiconductor Proceedings Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009 Nonlinear Device Modeling Project Woksape Novel Heterostructure Field Effect Transistors Device and Process Technologies for MEMS and Microelectronics *Michael Shur S. J. Pearton M. Razeghi S. M. Sze Cheng Wang R. J. Shul Tien-Pei Lee Peterson's Yuen-Wah Sing Renee A. Holoiien Junho Baek*

this manual contains the plotf software user s guide and program description to accompany michael shur s physics of semiconductor devices rear cover

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sze's classic physics of semiconductor devices modern semiconductor device physics covers all the significant advances in the field over the past decade to provide the most authoritative state of the art information on this rapidly developing technology dr sze has gathered the contributions of world renowned experts in each area principal topics include bipolar transistors compound semiconductor field effect transistors mosfet and related devices power devices quantum effect and hot electron devices active microwave diodes high speed photonic devices and solar cells supported by hundreds of illustrations and references and a problem set at the end of each chapter modern semiconductor device physics is the essential text reference for electrical engineers physicists material scientists and graduate students actively working in microelectronics and related fields

aimed at engineers and researchers in electronics and materials science this volume provides coverage of practical design considerations and applications of gallium arsenide gaas and related compounds and presents both theoretical and practical approaches to the subject

interest in wide bandgap semiconductors for high power high temperature electronics remains prominent for such applications sic is by far the most mature semiconductor material gan and diamond however have also become prime candidates while diamond has several advantages over the other two materials producing large single crystals as well as the inability to achieve n type doping have limited device fabrication for gan recent advances in crystal growth and processing capabilities as well as excellent transport properties have yielded a great deal of device development yet thermal conduction remains an issue sic has excellent thermal conductivity high breakdown voltages and well developed substrates and processing techniques this book deals with a wide range of technical activity in the area of wide bandgap high power high temperature electronic devices and covers topics including the fabrication and performance of gan based and sic based devices as well as issues related to growth characterization and processing of wide bandgap materials several summaries of the current status of the field are provided

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