Physics Of Semiconductor Devices Michael Shur

Physics of Semiconductor DevicesSemiconductor Device ModellingGaAs MMIC Reliability - High Temperature BehaviorReliability of High Temperature ElectronicsWide Energy Bandgap Electronic DevicesCompound Semiconductor Device ModellingPower Semiconductor Materials and Devices: Volume 483Introduction to Electronic DevicesCompound SemiconductorProceedings of the ... IEEE International Caracas Conference on Devices, Circuits and SystemsOptoelectronic Integrated Circuit Materials, Physics, and DevicesIEEE Circuits & DevicesWide-Bandgap Electronic Devices: Volume 622Optoelectronics, Materials, and Devices for CommunicationsDevice and Process Technologies for MEMS and MicroelectronicsMultilevel Interconnect TechnologyProceedings - Biennial Cornell Electrical Engineering ConferenceProceedings ... IEEE/Cornell Conference on High Performance DevicesGraduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009Introduction to Semiconductor Technology Michael Shur Christopher M. Snowden Aris Christou A. Christou Fan Ren Christopher M. Snowden S. J. Pearton Michael Shur M. Razeghi R. J. Shul Tien-Pei Lee Peterson's Cheng Wang

Physics of Semiconductor Devices Semiconductor Device Modelling GaAs MMIC Reliability - High Temperature Behavior Reliability of High Temperature Electronics Wide Energy Bandgap Electronic Devices Compound Semiconductor Device Modelling Power Semiconductor Materials and Devices: Volume 483 Introduction to Electronic Devices Compound Semiconductor Proceedings of the ... IEEE International Caracas Conference on Devices, Circuits and Systems Optoelectronic Integrated Circuit Materials, Physics, and Devices IEEE Circuits & Devices Wide-Bandgap Electronic Devices: Volume 622 Optoelectronics, Materials, and Devices for Communications Device and Process Technologies for MEMS and Microelectronics Multilevel Interconnect Technology Proceedings - Biennial Cornell Electrical Engineering Conference Proceedings ... IEEE/Cornell Conference on High Performance Devices Graduate

Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009 Introduction to Semiconductor Technology *Michael Shur Christopher M. Snowden Aris Christou A. Christou Fan Ren Christopher M. Snowden S. J. Pearton Michael Shur M. Razeghi R. J. Shul Tien-Pei Lee Peterson's Cheng Wang*

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

semiconductor device modelling has developed in recent years from being solely the domain of device physicists to span broader technological disciplines involved in device and electronic circuit design and develop ment the rapid emergence of very high speed high density integrated circuit technology and the drive towards high speed communications has meant that extremely small scale device structures are used in contempor ary designs the characterisation and analysis of these devices can no longer be satisfied by electrical measurements alone traditional equivalent circuit models and closed form analytical models cannot always provide consis tently accurate results for all modes of operation of these very small devices furthermore the highly competitive nature of the semiconductor industry has led to the need to minimise development costs and lead time associated with introducing new designs this has meant that there has been a greater demand for models capable of increasing our understanding of how these devices operate and capable of predicting accurate quantitative results the desire to move towards computer aided design and expert systems has reinforced the need for models capable of representing device operation under dc small signal large signal and high frequency operation it is also desirable to relate the physical structure of the device to the electrical performance this demand for better models has led to the introduction of improved equivalent circuit models and a upsurge in interest in using physical models

a presentation of state of the art gan and sic electronic devices as well as detailed applications of these devices to power conditioning rf base station infrastructure and high temperature electronics it includes results on ingaasn devices which constitute a very promising area for low power electronics

compound semiconductor devices form the foundation of solid state microwave and optoelectronic technologies used in many modern communication systems in common with their low frequency counterparts these devices are often represented using equivalent circuit models but it is often necessary to resort to physical models in order to gain insight into the detailed operation of compound semiconductor devices many of the earliest physical models were indeed developed to understand the unusual phenomena which occur at high frequencies such was the case with the gunn and impati diodes which led to an increased interest in using numerical simulation methods contemporary devices often have feature sizes so small that they no longer operate within the familiar traditional framework and hot electron or even quantum mechanical models are required the need for accurate and efficient models suitable for computer aided design has increased with the demand for a wider range of integrated devices for operation at microwave millimetre and optical frequencies the apparent complexity of equivalent circuit and physics based models distinguishes high frequency devices from their low frequency counterparts over the past twenty years a wide range of modelling techniques have emerged suitable for describing the operation of compound semiconductor devices this book brings together for the first time the most popular techniques in everyday use by engineers and scientists the book specifically addresses the requirements and techniques suitable for modelling gaas inp ternary and quaternary semiconductor devices found in modern technology

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this book gives readers enough knowledge of the required principles so they can adapt the knowledge to new materials and types of devices as device dimensions shrink and more exotic compound semiconductor materials are used in electronic circuits the physics involved in understanding the device behavior becomes more complicated and more fascinating

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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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

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