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This book addresses material growth, device fabrication, device application, and commercialization of energy-efficient white light-emitting diodes (LEDs), laser diodes, and power electronics devices. It begins

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with an overview on basics of semiconductor materials, physics, growth and characterization techniques, followed by detailed discussion of advantages, drawbacks, design issues, processing, applications, and key challenges for state of the art GaN-based devices. It includes state of the art material synthesis techniques with an overview on growth technologies for emerging bulk or free standing GaN and AlN substrates and their applications in electronics, detection, sensing, optoelectronics and photonics. Wengang (Wayne) Bi is Distinguished Chair Professor and Associate Dean in the College of Information and Electrical Engineering at Hebei University of Technology in Tianjin, China.

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Hao-chung (Henry) Kuo is Distinguished Professor and Associate Director of the Photonics Center at National Chiao-Tung University, Hsin-Tsu, Taiwan, China. Pei-Cheng Ku is an associate professor in the Department of Electrical Engineering & Computer Science at the University of Michigan, Ann Arbor, USA. Bo Shen is the Cheung Kong Professor at Peking University in China.

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A definitive and up-to-date handbook of semiconductor devices Semiconductor devices, the basic components of integrated circuits, are responsible for the rapid growth of the electronics industry over the past fifty years. Because there is a growing need for faster and more complex systems for the information age, existing semiconductor devices are constantly being studied for improvement, and new ones are being continually invented. As a result, a large number of types and variations of devices are available in the literature. The Second Edition of this unique engineering guide continues to be the only available complete collection of semiconductor devices, identifying 74 major

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devices and more than 200 variations of these devices. As in the First Edition, the value of this text lies in its comprehensive, yet highly readable presentation and its easy-to-use format, making it suitable for a wide range of audiences. Essential information is presented for a quick, balanced overview Each chapter is designed to cover only one specific device, for easy and focused reference Each device is discussed in detail, always including its history, its structure, its characteristics, and its applications The Second Edition has been significantly updated with eight new chapters, and the material rearranged to reflect recent developments in the field. As such, it remains an ideal reference source for

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This book covers the fundamentals and significance of 2-D materials and related semiconductor transistor technologies for the next-generation ultra low power applications. It provides comprehensive coverage on advanced low power transistors such as NCFETs, FinFETs, TFETs, and flexible transistors for future ultra low power applications owing to their better

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subthreshold swing and scalability. In addition, the text examines the use of field-effect transistors for biosensing applications and covers design considerations and compact modeling of advanced low power transistors such as NCFETs, FinFETs, and TFETs. TCAD simulation examples are also provided.

FEATURES

- Discusses the latest updates in the field of ultra low power semiconductor transistors
- Provides both experimental and analytical solutions for TFETs and NCFETs
- Presents synthesis and fabrication processes for FinFETs
- Reviews details on 2-D materials and 2-D transistors
- Explores the application of FETs for biosensing in the healthcare field

This book is aimed at researchers, professionals, and

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graduate students in electrical engineering, electronics and communication engineering, electron devices, nanoelectronics and nanotechnology, microelectronics, and solid-state circuits.

Semiconductor technology is the basis of today's microelectronics industry with its many impacts on our modern life, i.e. computer and communication technology. This two-volume handbook covers the basics of semiconductor processing technology, which

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are as essential for the design of new microelectronic devices as the fundamental physics. Volume 1 'Electronic Structure and Properties' covers the structure and properties of semiconductors, with particular emphasis on concepts relevant to semiconductor technology. Volume 2 'Processing of Semiconductors' deals with the enabling materials technology for the electronics industry. World-renowned authors have contributed to this unique treatment of the processing of semiconductors and related technologies. Of interest to physicists and engineers in research and in the electronics industry, this is a valuable reference source and state-of-the-art review by the world's top authors.

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