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A group of 2D materials can be called graphene derivatives, and these have attracted tremendous interest. This includes materials that are one or a few atoms thick. They have outstanding optical/electrical properties, and, most importantly, they are flat and thin—they can be processed with existing semiconductor technologies. Therefore, they have great potential in nanoelectronics and optoelectronics, playing a revolutionary role in these fields via their integration with other bulk materials. Of course, there are still challenges, such as large-scale production, as well as the mechanical transfer of these atomically thin sheets. These are the fields where scientists are now actively doing research. In this book, some leading scientists in the area share their most recent results on the material growth, device physics/processing, and system integration of 2D materials and devices. This book can serve as a starting point for young students to get familiar with the field, and should also be valuable to established device physicists and engineers who would like to explore the potential applications of 2D materials in electronics. Zinc Compounds—Advances in Research and Application: 2012 Edition [ScholarlyBrief](#) [ScholarlyEditions](#) Zinc Compounds—Advances in Research and Application: 2012 Edition is a [ScholarlyBrief™](#) that delivers timely, authoritative, comprehensive, and specialized information about Zinc Compounds in a concise format. The editors have built Zinc Compounds—Advances in Research and Application: 2012 Edition on the vast information databases of [ScholarlyNews™](#). You can expect the information about Zinc Compounds in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Zinc Compounds—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at [ScholarlyEditions™](#) and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Photodetectors [BoD - Books on Demand](#) In this book some recent advances in development of photodetectors and photodetection systems for specific applications are included. In the first section of the book nine different types of photodetectors and their characteristics are presented. Next, some theoretical aspects and simulations are discussed. The last eight chapters are devoted to the development of photodetection systems for imaging, particle size analysis, transfers of time, measurement of vibrations, magnetic field, polarization of light, and particle energy. The book is addressed to students, engineers, and researchers working in the field of photonics and advanced technologies. High-k Materials in Multi-Gate FET Devices [CRC Press](#) High-k Materials in Multi-Gate FET Devices focuses on high-k materials for advanced FET devices. It discusses emerging challenges in the engineering and applications and considers issues with associated technologies. It covers the various way of utilizing high-k dielectrics in multi-gate FETs for enhancing their performance at the device as well as circuit level. Provides basic knowledge about FET devices Presents the motivation behind multi-gate FETs, including current and future trends in transistor technologies Discusses fabrication and characterization of high-k materials Contains a comprehensive analysis of the impact of high-k dielectrics utilized in the gate-oxide and the gate-sidewall spacers on the GIDL of emerging multi-gate FET architectures Offers detailed application of high-k materials for advanced FET devices Considers future research directions This book is of value to researchers in materials science, electronics engineering, semiconductor device modeling, IT, and related disciplines studying nanodevices such as FinFET and Tunnel FET and device-circuit codesign issues. Proton Pumps—Advances in Research and Application: 2012 Edition [ScholarlyPaper](#) [ScholarlyEditions](#) Proton Pumps—Advances in Research and Application: 2012 Edition is a [ScholarlyPaper™](#) that delivers timely, authoritative, and intensively focused information about Proton Pumps in a compact format. The editors have built Proton Pumps—Advances in Research and Application: 2012 Edition on the vast information databases of [ScholarlyNews™](#). You can expect the information about Proton Pumps in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Proton Pumps—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at [ScholarlyEditions™](#) and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Silicon Compatible Materials, Processes, and Technologies for Advanced Integrated Circuits and Emerging Applications [The Electrochemical Society](#) This issue of ECS Transactions covers emerging materials, process and technology options for large-area silicon wafers to enhance advanced IC performance or to enable revolutionary device structures with entirely new functionalities. Topics : high-mobility channel materials, (e.g. strained Si/Ge, compound semiconductors and graphene), high-performance gate stacks and low-resistivity junctions and contacts on new, Si-compatible materials; new materials and processes for 3-D (TSV) integration ; synthesis of nano-structures including wires, pores and membranes of Si-compatible materials; novel MEMS/NEMS structures and their integration with the mainstream Si-IC technology. Guyanese Achievers USA & Canada A Celebration [Trafford Publishing](#) "Guyanese Achievers, USA and Canada" is the result of collaboration between Vidur Dindayal and the Guyanese diaspora,

who shared with him its recommendations on whom to identify as examples of achievement. This volume chronicles Guyanese people who reflect their nation's rich multi-ethnic heritage. These people demonstrate that Guyanese have been successful in North America for a long time. For example, Sir James Douglas became the governor of the colony of Vancouver Island and later the colony of British Columbia in the 1850s. Today, he is considered the "father of British Columbia." For Guyanese, he is Guyana's "first gift to Canada." A statue of Sir James Douglas was unveiled in 2008 at his birthplace in Belmont, Mahaica. At the end of the first decade of the twenty-first century, the list of Guyanese who have been gifts to the United States and Canada is impressive. "Guyanese Achievers, USA and Canada" celebrates the academics, actors, doctors, educators, entrepreneurs, and others who, by demonstrating inventiveness and persistence, have been recognized as exemplars of Guyanese achievement in North America. CMOS and Beyond Logic Switches for Terascale Integrated Circuits [Cambridge University Press](#) Get up to speed with the future of logic switch design with this indispensable overview of the most promising successors to modern CMOS transistors. Learn how to overcome existing design challenges using novel device concepts, presented using an in-depth, accessible, tutorial-style approach. Drawing on the expertise of leading researchers from both industry and academia, and including insightful contributions from the developers of many of these alternative logic devices, new concepts are introduced and discussed from a range of different viewpoints, covering all the necessary theoretical background and developmental context. Covering cutting-edge developments with the potential to overcome existing limitations on transistor performance, such as tunneling field-effect transistors (TFETs), alternative charge-based devices, spin-based devices, and more exotic approaches, this is essential reading for academic researchers, professional engineers, and graduate students working with semiconductor devices and technology.