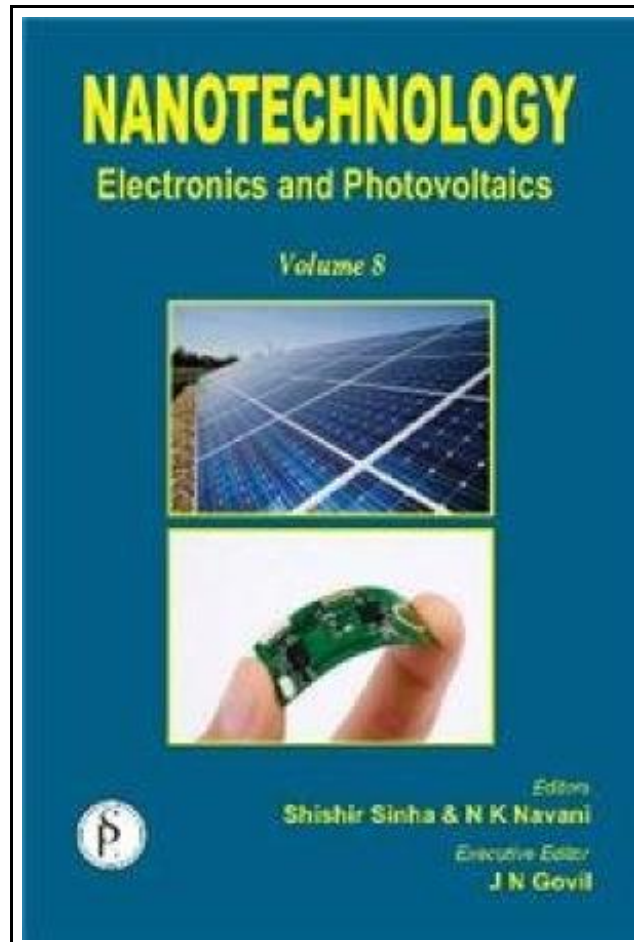


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Studium Press LLC / Researchco Books & Periodicals Pvt. Ltd., Houston, Texas, 2013. Hardcover. Book Condition: New. The energy demands of the world are increasing day by day and we are heading towards energy crisis. However, in wake of such a situation it is astounding to learn that the sun gives enough energy in a couple of hours to meet the world's energy demands for a whole year. The bottleneck, therefore, is the proper harnessing of this energy using photovoltaics. A lot of research is currently being undertaken in the direction of development of better photovoltaic devices. The current volume makes an attempt to summarize these developments. Beginning with brief introduction, the volume forays into innovative modifications in the current devices and applications of novel nanostructures in the photovoltaic research. Some chapters provide a vivid description of the importance of the photovoltaic nanostructures and their potential to generate light energy. The book carefully caters to the needs of the researchers involved in this research area. The students can benefit by learning the basic technologies as well as their current modifications whereas the advance level researcher will be benefited by the elucidation of the current trends in photovoltaic nanotechnology. TABLE OF CONTENTS: Changing Trends in Silicon Nanotechnology (INDIA, ITALY); Advanced Nanostructured Electrodes for Li-Ion Batteries (CHINA) Nanotechnology in Photovoltaics (INDIA); Luminescent Nanoparticles for Applications in Lighting, Display and Solar Cell Energy Harvesting (INDIA); Topological Insulator Nanostructures (USA); Quantum Light Sources Based on Nano-Materials (TAIWAN); Ultrafast Spectroscopy and Technological Application of Light Harvesting Nanomaterials (INDIA); Applications of Various TiO₂ Nanostructures (REPUBLIC OF CHILE); Multi-Nanolayered Ohmic Metallizations for Sub-Microelectronics (BULGARIA); Magnetic Tunnel Junction Based Molecular Spintronics Devices (USA); Optical Injection Locking of Quantum-Dot Semiconductor Lasers (IRAQ); Hybrid Nanocrystal/Polymer Bulk Heterojunction Photovoltaic Cells (CHINA); GaN-Based Light-Emitting Diodes with Nanostructure (TAIWAN); Advanced Radial pn Junction Solar...



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