

Advanced Silicon Materials For Photovoltaic Applications

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today the silicon feedstock for photovoltaic cells comes from processes which were originally developed for the microelectronic industry it covers almost 90 of the photovoltaic market with mass production volume at least one order of magnitude larger than those devoted to microelectronics however it is hard to imagine that this kind of feedstock extremely pure but heavily penalized by its high energy cost could remain the only source of silicon for a photovoltaic market which is in continuous expansion and which has a cumulative growth rate in excess of 30 in the last few years even though reports suggest that the silicon share will slowly decrease in the next twenty years finding a way to manufacture a specific solar grade feedstock in large quantities at a low cost while maintaining the quality needed still remains a crucial issue thin film and quantum confinement based silicon cells might be a complementary solution advanced silicon materials for photovoltaic applications has been designed to describe the full potentialities of silicon as a multipurpose material and covers physical chemical and structural properties of silicon production routes including the promise of low cost feedstock for pv applications defect engineering and the role of impurities and defects characterization techniques and advanced analytical techniques for metallic and non metallic impurities thin film silicon and thin film solar cells innovative quantum effects and 3rd generation solar cells with contributions from internationally recognized authorities this book gives a comprehensive analysis of the state of the art of process technologies and material properties essential for anyone interested in the application and development of photovoltaics

this was the tenth symposium of the international symposium on silicon material science and technology going back to 1969 this issue provides a unique historical record of the program and will aid in the understanding of silicon materials over the last 35 years

apart from oxygen silicon is the most commonly occurring element on earth silicon materials have many applications in the manufacturing technology of microelectronic components integrated circuits and photovoltaic generators circuit complexity and higher degrees of integration of components require constant improvement and control of silicon s properties this book provides information on silicon materials their use and their impact on the modern world economy

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