Nanocrystalline and microcrystalline semiconductors are playing an increasing role in many areas of technology, such as deep submicron and nanoelectronic devices, optoelectronics, photovoltaics, and chemical and biological sensing applications. The interest in structures on this length scale stems from their large surface area; the fact that their properties can be tailored by specifying their size, shape and surface chemistry; and the nearly complete freedom of design and manufacture that has recently been achieved. This book presents the latest results of interdisciplinary research, integrating progress in respective disciplines with advances in allied fields. Emphasis is on silicon and other column-IV elements and alloys, which continue to dominate the market place. Breakthroughs in the theoretical understanding of electrical, optical, and chemical properties, advances in the manufacturing of quantum dots, nanostructures and films with the desired reproducibility are highlighted. Topics include: silicon quantum dot devices; porous silicon; silicon quantum dot preparation; nanocrystalline silicon; biology with nanoscale silicon; Si passivation and functionalization; silicon nanowires; Ge and SiGe quantum dots; diamond nanocrystals; rare earths in nanostructures and light-emitting devices.

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