



Nanostructure of A - Si: H and Related Alloys by Small-Angle Scattering of Neutrons and X - Rays

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This report describes work being performed to provide details of the microstructure in high-quality hydrogenated amorphous silicon and related; alloys on the nanometer scale. The materials under study are being prepared by state-of-the-art deposition methods, as well as by new and; emerging deposition techniques. The purpose is to establish the role of nanostructural features in controlling opto-electronic and photovoltaic; properties. The approach centers around the use of the uncommon technique of small-angle scattering of both X-rays (SAXS) and neutrons; (SANS). SAXS has already been established as highly sensitive to microvoids and columnar-like microstructure. A major goal of this research; is to establish the sensitivity of SANS to the hydrogen nanostructure. Conventional X-ray diffraction techniques are being used to examine medium-range order and microcrystallinity, particularly near the boundary between amorphous and microcrystalline material.



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Reviews

Undoubtedly, this is the best function by any writer. This really is for those who statte there was not a really worth reading. Its been written in an exceptionally basic way which is merely right after i finished reading through this book by which really transformed me, change the way i really believe.

-- **Dr. Deonte Hammes DDS**

Basically no phrases to clarify. It really is rally fascinating through reading time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Anabel Zemplak**

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