

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

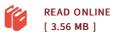
National Renewable Energy Laboratory (NREL)



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.



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 throgh reading time. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Anabel Zemlak

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