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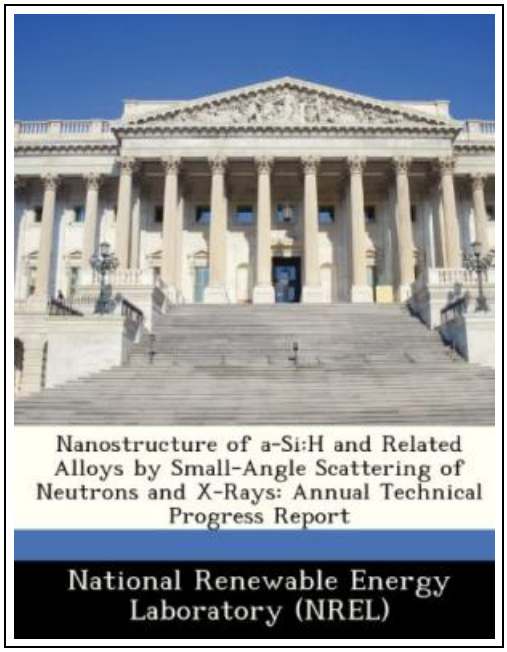

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Reviews

Unquestionably, this is actually the very best job by any publisher. It really is basic but unexpected situations within the 50 % from the book. I discovered this book from my dad and i advised this publication to discover.
(Dr. Willis Walter)

NANOSTRUCTURE OF A-SI: H AND RELATED ALLOYS BY SMALL-ANGLE SCATTERING OF NEUTRONS AND X-RAYS: ANNUAL TECHNICAL PROGRESS REPORT

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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 and microcrystalline silicon and related alloys on the nanometer size scale. The materials under study are being prepared by current 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 the 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 how sensitive SANS is 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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