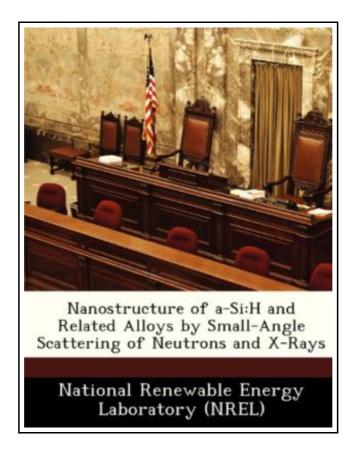
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NANOSTRUCTURE OF A-SI: H AND RELATED ALLOYS BY SMALL-ANGLE SCATTERING OF NEUTRONS AND X-RAYS



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BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 84 pages. Dimensions: 9.7in. x 7.4in. x 0.2in.This report describes work 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 studied were 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 centered 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 was to establish the ability of SANS to detect hydrogen inhomogeneity in device-quality materials. This was demonstrated and new information on various materials have been provided. Conventional X-ray diffraction techniques were used to examine medium-range order and microcrystallinity, particularly near the boundary between amorphous and microcrystalline material. This item ships from La Vergne,TN. Paperback.

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