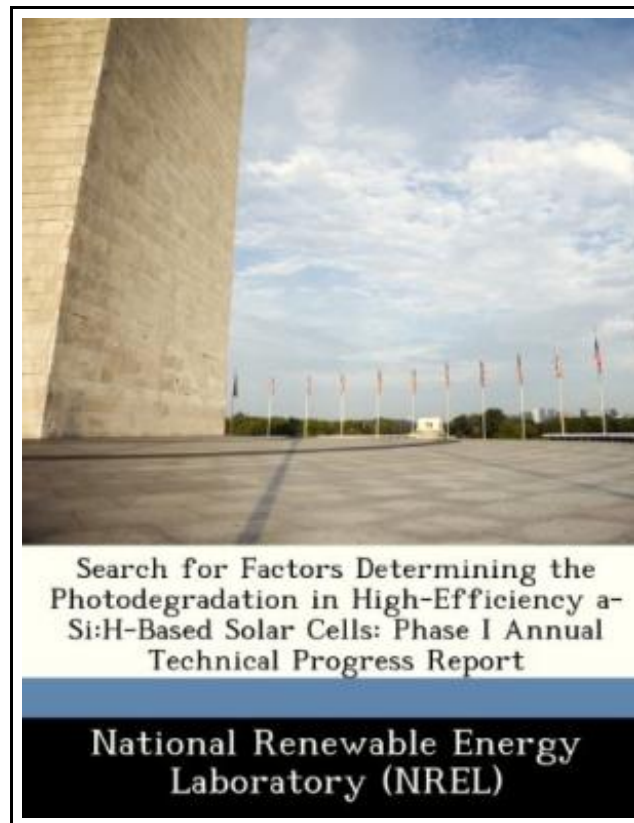


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Reviews


Thorough information! Its such a good study. Sure, it is perform, still an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Evie Emmerich)


SEARCH FOR FACTORS DETERMINING THE PHOTODEGRADATION IN HIGH-EFFICIENCY A-SI: H-BASED SOLAR CELLS: PHASE I ANNUAL TECHNICAL PROGRESS REPORT (PAPERBACK)



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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 studies on glow discharge (GD) and hot-wire a-Si-based samples by the University of North Carolina-Chapel Hill during Phase I. We have characterized H-bonding and its light-induced changes by using infrared (IR) and differential IR (DIR). For the less stable film, there is a simultaneous decrease 2040 cm⁻¹ and increase 1880 cm⁻¹; for the more-stable samples, the DIR near 2000 cm⁻¹ increases upon light-soaking. Nuclear magnetic resonance (NMR) dipolar relaxation time T_{1D} of the clustered H is slightly shorter, but the T_{1D} of the isolated H is 4 times longer in hot-wire (HW) film than that in GD films. The results indicate that the local motion of the isolated H is much slower in HW compared to that in GD film. High-Temperature NMR results show a second narrow line (less than 1 kHz wide) as the temperature is raised. In stress measurements, it is clearly shown that HW films with lower hydrogen content show lower compression. A photoinduced increase of the compression on the order of 10⁻⁴ of the initial value upon light-soaking was found to be similar in all a-Si: H films which exhibit different amounts of Staebler-Wronski (SW) degradation. Hence, the volume expansion is not directly related to SW effect. Also, we have measured the electric field profile in a-Si: H and a-SiGe: H solar cells, and the results agreed with computer simulati.

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