



Stable A-Si: H-Based Multijunction Solar Cells with Guidance from Real-Time Optics

By -

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This report describes the new insights obtained into the growth of hydrogenated silicon (Si: H) films via real-time spectroscopic ellipsometry (RTSE) measurements. Evolutionary phase diagrams were expanded to include the effects of different deposition conditions, including rf power, pressure, and temperature. Detailed studies of degradation kinetics in thin films and corresponding solar cells have been carried out. Both p-i-n and n-i-p solar cells that incorporate Si: H i-layers deposited with and without H₂-dilution have been studied. For the first time, direct and reliable correlations have been obtained between the light-induced changes in thin-film materials and the degradation of the corresponding solar cell.



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A very awesome book with perfect and lucid reasons. It really is basic but shocks within the 50 percent of the book. Its been designed in an exceptionally easy way and is particularly merely right after i finished reading this ebook where in fact changed me, change the way i think.

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