



Experimental Studies of Light-Induced Changes in Long-Ranged Disorder in Amorphous Silicon (Paperback)

By -

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The principal objective of the proposed research is the experimental study and elucidation of the role that long-ranged disorder plays in the light-induced metastable conductance changes in hydrogenated amorphous silicon (a-Si: H). The development of sources of low-cost renewable electrical energy is a high national priority. A consensus has developed that a-Si: H is the material of choice for large-area photovoltaic devices. However, the efficiency of a-Si: H-based solar cells decreases by nearly a factor of two following extended illumination, owing to the creation of light-induced defects resulting from the recombination of photo-excited charge carriers. If this light-induced defect formation could be reduced or eliminated, the practical conversion-efficiency of a-Si: H-based solar cells would effectively double, yielding cost per kilowatt-hour values comparable to that of conventional fossil fuel generation of electricity. Recent experimental results and theoretical calculations indicate that associated with light-induced dangling-bond creation, there are alterations in the medium- and long-ranged disorder in the a-Si: H films. A determination of whether or not the long-ranged disorder is affected in the Staebler-Wronski effect is important, for if so,...



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