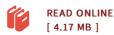




# Properties of Wide-Gap Chalcopyrite Semiconductors for Photovoltaic Applications (Paperback)

Ву-

Bibliogov, United States, 2012. Paperback. Condition: New. Language: English . Brand New Book
\*\*\*\*\*\* Print on Demand \*\*\*\*\*\*. The objectives of this project were to obtain a fundamental
understanding of wide-gap chalcopyrite semiconductors and photovoltaic devices. Information to
be gathered included significant new fundamental materials data necessary for accurate modeling
of single- and tandem-junction devices, basic materials science of wider-gap chalcopyrite
semiconductors to be used in next-generation devices, and practical information on the operation
of devices incorporating these materials. Deposition used a hybrid sputtering and evaporation
method shown previously to produce high-quality epitaxial layers of Cu(In, Ga)Se2 (CIGS). Materials
analysis was also provided to assist members of the National CIS Team, of which, through this
contract, we were a member. Solar cells produced from resulting single-crystal epitaxial layers in
collaboration with various members of the CIS Team were used to determine the factors limiting
performance of the devices based on analysis of the results. Because epitaxial growth allows us to
determine the surface orientation of our films specifically by choice of the substrate surface on
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