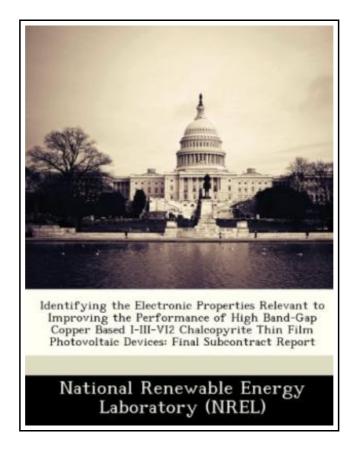
# Identifying the Electronic Properties Relevant to Improving the Performance of High Band-Gap Copper Based I-III-Vi2 Chalcopyrite Thin Film Photovoltaic Devices: Final Subcontract Report (Paperback)



Filesize: 9.61 MB

# Reviews

If you need to adding benefit, a must buy book. Better then never, though i am quite late in start reading this one. I discovered this publication from my i and dad advised this pdf to find out. (Mrs. Glenda Rodriguez)

# IDENTIFYING THE ELECTRONIC PROPERTIES RELEVANT TO IMPROVING THE PERFORMANCE OF HIGH BAND-GAP COPPER BASED I-III-VI2 CHALCOPYRITE THIN FILM PHOTOVOLTAIC DEVICES: FINAL SUBCONTRACT REPORT (PAPERBACK)



Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This report summarizes the development and evaluation of higher-bandgap absorbers in the CIS alloy system. The major effort focused on exploring suitable absorbers with significant sulfur alloying in collaboration with Shafarman s group at the Institute of Energy Conversion. Three series of samples were examined; first, a series of quaternary Culn(SeS)2-based devices without Ga; second, a series of devices with pentenary Cu(InGa)(SeS)2 absorbers in which the Se-to-S and In-to-Ga ratios were chosen to keep the bandgap nearly constant, near 1.52 eV. Third, based on the most-promising samples in those two series, we examined a series of devices with pentenary Cu(InGa)(SeS)2 absorbers with roughly 25 at. S/(Se+S) ratios and varying Ga fractions. We also characterized electronic properties of several wide-bandgap CuGaSe2 devices from both IEC and NREL. The electronic properties of these absorbers were examined using admittance spectroscopy, drive-level capacitance profiling, transient photocapacitance, and transient photocurrent optical spectroscopies. The sample devices whose absorbers had Ga fraction below 40 at. and S fractions above 20 at. but below 40 exhibited the best electronic properties and device performance.

- Read Identifying the Electronic Properties Relevant to Improving the Performance of High Band-Gap Copper Based I-III-Vi2 Chalcopyrite Thin Film Photovoltaic Devices: Final Subcontract Report (Paperback) Online
- Download PDF Identifying the Electronic Properties Relevant to Improving the Performance of High Band-Gap Copper Based I-III-Vi2 Chalcopyrite Thin Film Photovoltaic Devices: Final Subcontract Report (Paperback)

## Other PDFs



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications . (Paperback)

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This historic book may have numerous typos and missing text. Purchasers can usually...

Download ePub »



### Ohio Court Rules 2012, Government of Bench Bar (Paperback)

Createspace, United States, 2011. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Superseded by 2013 Edition. This title is available, but should be relied upon...

Download ePub »



### Ohio Court Rules 2012, Practice Procedure (Paperback)

Createspace, United States, 2011. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Superseded by 2013 Edition. This title is available, but should be relied upon...

Download ePub »



Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel's System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers (Paperback)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This historic book may have numerous typos and missing text. Purchasers can download...

Download ePub »



A Kindergarten Manual for Jewish Religious Schools; Teacher's Text Book for Use in School and Home (Paperback)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. This historic book may have numerous typos and missing text. Purchasers can download...

Download ePub »