



## Electrodeposition of CuIn1-Xgaxse2 Materials for Solar Cells: Final Report

By -

BiblioGov. Paperback. Condition: New. This item is printed on demand. 58 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This report describes our scientific understanding of the CIGS materials system, solar cells, and processes. Through DOE support, the investigators developed much of the technology and device fabrication infrastructure applied to electrodeposited (ED) materials. The electrodeposition process is simple and fast, and can synthesize multinary precursors for subsequent processing into  $\text{CuIn}_x\text{Ga}_{1-x}\text{Se}_2$  (CIGS) thin-film absorbers for solar cells. The device fabricated by using electrodeposited CIGS precursor layers resulted in total-area conversion efficiencies up to 15.4. As-deposited precursors are Cu-rich CIGS. Additional In, Ga, and Se (up to 50) are added to the precursor films by physical vapor deposition (PVD) to adjust the final semiconductor film composition to about  $\text{Cu}_{0.95}\text{In}_{0.75}\text{Ga}_{0.25}\text{Se}_2$ . The ED device parameters are compared with those of an 18.8 PVD device. This item ships from La Vergne, TN. Paperback.



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