



## Future Cis Manufacturing Technology Development: Final Report

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The University of Florida served as the basis for educating 12 graduate students in the area of photovoltaics engineering and research with a focus on thin-film CIS manufacturing technologies. A critical assessment of the thermodynamic data and of the phase diagrams for the Cu-Se and In-Se binary systems were carried out. We investigated the use of two novel precursor structures that used stacked In-Se and Cu-Se binary layers instead of conventional elemental layers, followed by rapid thermal processing (RTP) to produce CIS films. We investigated the evolution of electrical and microstructural properties of sputter-deposited ZnO: Al thin films. An assessment of the thermodynamics of the pseudobinary Cu<sub>2</sub>Se-Ga<sub>2</sub>Se<sub>3</sub> system was done by using available experimental data, as well as an empirical method for estimating interactions in semiconductor solid solutions. Optimization studies were conducted to characterize the RTP of binary bilayer precursors for CIS synthesis using a newly acquired AG Associates Heatpulse furnace. Progress was made on the calculation of the 500°C isothermal section of the phase diagram of the ternary Cu-In-Se system. Pursuit of developing alternative buffer layers for...

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