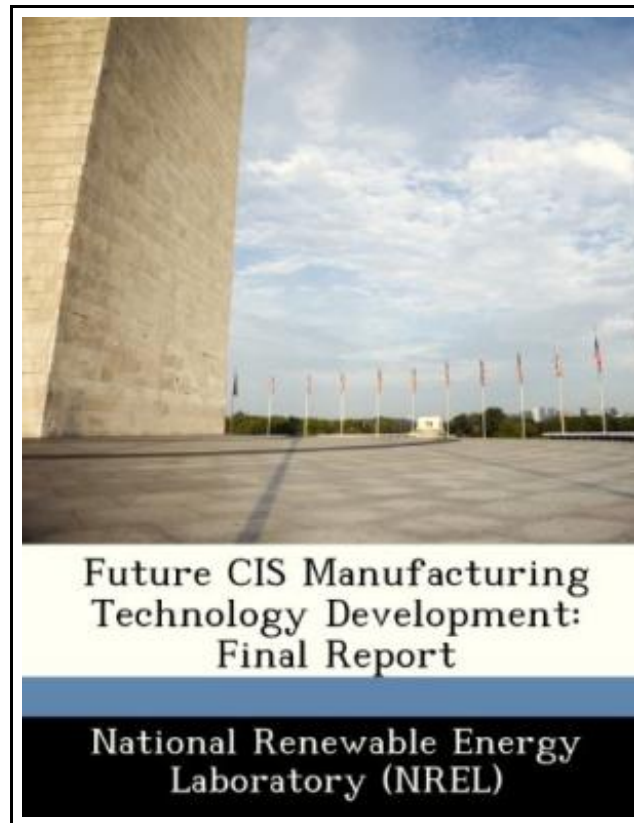


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The book is fantastic and great. It is filled with wisdom and knowledge I am just easily will get a enjoyment of looking at a composed publication.

(Bradley Hahn)

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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 Cu₂Se-Ga₂Se₃ 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 Cd-free CIS-based solar cells using a chemical-bath deposition (CBD) process has resulted in specific recipes for deposition. A rigorous model has been derived to predict the metal mass fluxes produced by conical thermal effusion sources. A two-dimensional model of the heat transfer was developed to model the substrate temperature distribution in the UF PMEE Reactor that features a rotating platen-substrates and effusion sources. We have grown and characterized polycrystalline CIS epitaxial films on single-crystal GaAs substrates under conditions that enhance the influence of surface effects on the resulting films and their properties. Progress was made on the study of CIS...

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