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## Fundamental Materials Research and Advanced Process Development for Thin-Film Cis-Based Photovoltaics: Final Technical Report, 2 October 2001 - 30 September 2005 (Paperback)

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 objectives for this thin-film copper-indium-diselenide (CIS) solar cell project cover the following areas: Develop and characterize buffer layers for CIS-based solar cell; grow and characterize chemical-bath deposition of  $Zn_x Cd_{1-x}S$  buffer layers grown on CIGS absorbers; study effects of buffer-layer processing on CIGS thin films characterized by the dual-beam optical modulation technique; grow epitaxial  $CuInSe_2$  at high temperature; study the defect structure of CGS by photoluminescence spectroscopy; investigate deep-level defects in  $Cu(In, Ga)Se_2$  solar cells by deep-level transient spectroscopy; conduct thermodynamic modeling of the isothermal 500.deg.C section of the Cu-In-Se system using a defect model; form  $\alpha-CuInSe_2$  by rapid thermal processing of a stacked binary compound bilayer; investigate pulsed non-melt laser annealing on the film properties and performance of  $Cu(In, Ga)Se_2$  solar cells; and conduct device modeling and simulation of CIGS solar cell.



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