



Process Rd for Cis-Based Thin-Film Pv: Annual Technical Report (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 *****.During this subcontract period, predictability of Shell Solar Industries s CIS process was demonstrated by continuously executing the process while increasing throughput. Cumulative production for 2002 exceeded 1 MW - about twice the production rate for 2001. Average laminate efficiency for 2002 is 10.8 with a full width of only 12 of the average. Dramatic increases in line yield were achieved from improved production protocols and by addressing disparate special causes for process variation. Line yield increased from about 60 in 2000 to about 85 in 2002. NREL confirmed a champion 12.8 aperture-area conversion efficiency for a large-area (3626 cm²) CIS production module. Field failure mechanisms for prototype modules were clearly demonstrated. Additional circuit-plate or packaging process variables, although not as clearly established, were also found to affect long-term stability for pre-production modules. Significant progress was made toward developing a glass/glass package that eliminates the TPAT backsheet for decreased cost, simplification of the package, and decreased operating temperature. Very promising preliminary results were demonstrated for edge seals developed in collaboration with the new NREL-sponsored National Thin-Film PV Module...



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