

## Cigss Thin Film Solar Cells



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### ***Reviews***

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***(Mitchell Kuhn III)***

## CIGSS THIN FILM SOLAR CELLS



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Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This report describes the I-III-VI<sub>2</sub> compounds that are developing into a promising material to meet the energy requirement of the world. CuInSe<sub>2</sub> (CIS) and its alloy with Ga and S have shown long-term stability and highest conversion efficiency of 19.5 . Among the various ways of preparing CuIn<sub>1-x</sub>Ga<sub>x</sub>Se<sub>2-y</sub>S<sub>y</sub> (CIGSS)/CdS thin-film solar cells, co-evaporation and sputtering techniques are the most promising. Sputtering is an established process for very high-throughput manufacturing. ARCO Solar, now Shell Solar, pioneered the work in CIS using the sputtering technique. The two-stage process developed by ARCO Solar involved sputtering of a copper and indium layer on molybdenum-coated glass as the first step. In the second step, the copper-indium layers were exposed to a selenium-bearing gas such as hydrogen selenide (H<sub>2</sub>Se) mixed with argon. The hydrogen selenide breaks down and leaves selenium, which reacts and mixes with the copper and indium in such a way to produce very high-quality CIS absorber layer. Sputtering technology has the added advantage of being easily scaled up and promotes roll-to-roll production on flexible substrates. Preliminary experiments were carried out. ZnO/ZnO: Al deposition by RF magnetron sputtering and CdS deposition by chemical-bath deposition are being carried out on a routine basis.



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