

Fabrication of a Solar Cell from Thin Films using Solution Technique



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Reviews

Thorough information! Its such a good study. Sure, it is perform, still an amazing and interesting literature. Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Eve Emmerich)

FABRICATION OF A SOLAR CELL FROM THIN FILMS USING SOLUTION TECHNIQUE



GRIN Verlag Jul 2014, 2014. sonst. Bücher. Book Condition: Neu. 211x151x4 mm. This item is printed on demand - Print on Demand Neuware - Scholarly Research Paper from the year 2012 in the subject Energy Sciences, grade: B, , course: Material Engineering Technology, language: English, comment: This is a research project report leading to a Master of Science Degree in Electronics and Instrumentation of Kenyatta University. , abstract: In this work, n-type $\text{Cd}_x\text{Zn}_{1-x}\text{S}$ and p-type PbS layers were optimized through chemical solution technique for solar cells. $\text{Cd}_x\text{Zn}_{1-x}\text{S}$ was grown at 820 C while PbS was grown at room temperature utilizing aqueous conditions. Optical constants suitable for solar cells fabrication were investigated. $\text{Cd}_x\text{Zn}_{1-x}\text{S}$ films had a band gap varying from 2.47eV ($x = 0.6$) to 2.72 eV ($x = 1.0$), transmittance above 79% in VIS - NIR region with resistivity range of 9.5×10^1 to 1.22×10^2 -cm. PbS had a band gap of 0.89 eV, transmittance below 55% with a resistivity range of 6.78×10^3 to 1.26×10^4 -cm appropriate for solar cell absorber layers. Their solar cell had a short circuit current, $I_{sc} = 0.031\text{A}$, open voltage, $V_{oc} = 0.37\text{ V}$, efficiency, $= 0.9\%$ with a fill factor, $ff = 0.66$. 16 pp. Englisch.



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