



Fabrication of a Solar Cell from Thin Films using Solution Technique

By Cliff Orori Mosiori

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 CdxZn_{1-x}S and p-type PbS layers were optimized through chemical solution technique for solar cells. CdxZn_{1-x}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. CdxZn_{1-x}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 9.5×10¹ to 1.22× 10² -cm. PbS had a band gap of 0.89 eV, transmittance below 55% with a resistivity range of 6.78 × 10³ to 1.26 × 10⁴ -cm appropriate for solar cell absorber layers. Their solar cell had a short circuit current, $I_{sc} = 0.031A$, open voltage, $V_{oc} = 0.37 V$, efficiency, = 0.9% with a fill factor,...



[DOWNLOAD PDF](#)



[READ ONLINE](#)

[2.36 MB]

Reviews

This is basically the best pdf i have read through until now. It is filled with knowledge and wisdom I am easily can get a enjoyment of studying a created book.

-- **Dr. Carmine Hayes MD**

This pdf is amazing. I actually have go through and that i am sure that i will planning to read once again again in the future. You wont truly feel monotony at at any moment of the time (that's what catalogs are for regarding when you request me).

-- **Wellington Connelly**

You May Also Like



[Programming in D](#)

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



[Psychologisches Testverfahren](#)

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



[The Java Tutorial \(3rd Edition\)](#)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has...



[New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond](#)

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks. Each set of quick tests is packed...



[Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird](#)

Paperback. Book Condition: New. Not Signed; This is a Tinga Tinga tale inspired by traditional stories from Africa. Lion is king of Tinga Tinga but he can't roar! Can his friend Flea help Lion to find his roar and behave more like...



[Adobe InDesign CS/Cs2 Breakthroughs](#)

Peachpit Press, 2005. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Adobe InDesign is taking the publishing world by storm and users are hungry for breakthrough solutions to...