



Liquid-Phase Deposition of Cis Thin Layers: Final Report

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 goal of this project was to fabricate single-phase CIS (a-Cu-In-Se, stoichiometric composition: CuInSe_2) thin films for photovoltaic applications from a liquid phase - a Cu-In-Se melt of appropriate composition. This approach of liquid-phase deposition (LPD) is based on the new phase diagram we have established for Cu-In-Se, the first complete equilibrium phase diagram of this system. The liquidus projection exhibits four composition fields in which the primary solid phase, i.e., the first solid material that forms on cooling down from an entirely liquid state, is a-CuInSe₂. Remarkably, none of the four composition fields is anywhere near the stoichiometric composition (CuInSe_2) of a-CuInSe₂. The results demonstrate that the proposed technique is indeed capable of producing films with a particularly large grain size and a correspondingly low density of grain boundaries. To obtain films sufficiently thin for solar cell applications and with a sufficiently smooth surface, it is advantageous to employ a sliding boat mechanism. Future work on liquid-phase deposition of CIS should focus on the interaction between the melt and the substrate surface, the resulting CIS interfaces, the...

DOWNLOAD



READ ONLINE

[6.65 MB]

Reviews

A must buy book if you need to adding benefit. This really is for all those who statte that there had not been a really worth looking at. Your daily life period will likely be change when you complete reading this publication.

-- **Veronica Hauck DVM**

If you need to adding benefit, a must buy book. It normally fails to cost a lot of. Its been designed in an extremely easy way in fact it is just right after i finished reading through this ebook by which basically transformed me, change the way i believe.

-- **Vernon Ritchie**

See Also



On Becoming Baby Wise, Book Two: Parenting Your Five to Twelve-Month Old Through the Babyhood Transition

Parent-Wise Solutions, 2012. Paperback. Book Condition: New. BRAND NEW, Perfect Shape, No Black Remainder Mark, Fast Shipping With Online Tracking, International Orders shipped Global Priority Air Mail, All orders handled with care and shipped promptly in secure packaging, we ship Mon-Sat and send...



Weebies Family Halloween Night English Language: English Language British Full Colour

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and Junior Children how to read with this...



Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 211 x 101 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read Write Inc. Set 1 and 2 sounds....



I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy reading identities, that foster an attraction to...



A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half

Createspace, United States, 2014. Paperback. Book Condition: New. 251 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.The ultimate learn-by-doing approach Written for beginners, useful for experienced developers who want to sharpen their skills and don t mind...



YJ] New primary school language learning counseling language book of knowledge [Genuine Specials(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2011-03-01 Pages: 752 Publisher: Jilin University Shop Books All the new book. the subject of genuine special part...