



Photovoltaic Manufacturing Cost and Throughput Improvements for Thin-Film Cigs-Based Modules: Phase II Technical 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 *****.Thin-film photovoltaics (PV) has expanded dramatically in the last five years, but commercial use remains limited by performance, cost, and reliability. Of all the thin-film systems, copper indium gallium diselenide (CIGS) has demonstrated the greatest potential for achieving high performance at a low cost. The highest-quality CIGS has been formed by multi-source co-evaporation, a technique pioneered in this country by researchers at NREL. Multi-source co-evaporation is also potentially the fastest and most cost-effective method of CIGS absorber deposition. Global Solar Energy (GSE) has adapted multi-source co-evaporation of CIGS to large-area, roll-to-roll processing on flexible substrates, enabling several manufacturing and product capability advantages. Roll-to-roll processing enables a low-cost, automated continuous manufacturing process. Flexible substrates enable product application in unique, as well as traditional, areas. The primary objectives of the GSE Photovoltaic Manufacturing Technology (PVMaT) subcontract are to reduce cost and expand the production rate of thin-film CIGS-based PV modules on flexible substrates. Improvements will be implemented in monolithic integration, CIGS deposition, contact deposition, and in-situ CIGS control and monitoring.

Reviews

Merely no words to explain. I really could comprehend everything out of this published e ebook. I found out this publication from my dad and i suggested this publication to learn.

-- **Prof. Margarita Ledner PhD**

This written pdf is fantastic. It normally is not going to expense a lot of. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Gilbert Stroman**

Related PDFs



[Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers](#)

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original...



[Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. \(1624-1625\)](#)

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible...



[Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. \(1625\)](#)

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book ***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible only...



[Variations on an Original Theme Enigma , Op. 36: Study Score](#)

Petrucchi Library Press, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Dedicated to my friends pictured within, Elgar s orchestral showpiece started life as a simple improvisation at the...



[Ohio Court Rules 2014, Government of Bench Bar](#)

Createspace, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Ohio Court Rules 2014, Government of Bench Bar, contains all of the rules relating to Ohio attorneys and judges and...



[Ohio Court Rules 2015, Government of Bench Bar](#)

Createspace, United States, 2014. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Ohio Court Rules 2015, Government of Bench Bar, contains all of the rules relating to Ohio attorneys and judges and...