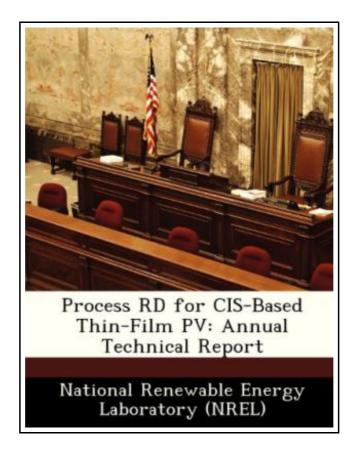
Process Rd for Cis-Based Thin-Film Pv: Annual Technical Report



Filesize: 7.79 MB

Reviews

Merely no words and phrases to describe. I really could comprehended almost everything using this created e pdf. Your daily life period will be change once you full reading this ebook.

(Mr. Ladarius Stoltenberg)

PROCESS RD FOR CIS-BASED THIN-FILM PV: ANNUAL TECHNICAL REPORT



Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. During this subcontract period, predictability of Shell Solar Industries s CIS process was demonstrated by continuously executing the process while increasing throughput. Cumulative production for 2002 exceeded 1 MW - about twice the production rate for 2001. Average laminate efficiency for 2002 is 10.8 with a full width of only 12 of the average. Dramatic increases in line yield were achieved from improved production protocols and by addressing disparate special causes for process variation. Line yield increased from about 60 in 2000 to about 85 in 2002. NREL confirmed a champion 12.8 aperture-area conversion efficiency for a large-area (3626 cm2) CIS production module. Field failure mechanisms for prototype modules were clearly demonstrated. Additional circuit-plate or packaging process variables, although not as clearly established, were also found to affect long-term stability for pre-production modules. Significant progress was made toward developing a glass/glass package that eliminates the TPAT backsheet for decreased cost, simplification of the package, and decreased operating temperature. Very promising preliminary results were demonstrated for edge seals developed in collaboration with the new NREL-sponsored National Thin-Film PV Module Reliability Team. Long-term outdoor stability has been demonstrated at NREL where 30x30 cm and 30x120 cm modules with multiple prototype package designs have undergone testing for over 14 years. The demonstrated high line yield is the major accomplishment. No one major process improvement was responsible for the yield improvements. Judicious application of manufacturing engineering disciplines such as SPC, analysis of variation, and design of experiments led to a clear definition of near-term yield issues. Dramatic improvements in yield were the result of improving production protocols and addressing disparate special causes for process variation.



Read Process Rd for Cis-Based Thin-Film Pv: Annual Technical Report Online



Download PDF Process Rd for Cis-Based Thin-Film Pv: Annual Technical Report

You May Also Like



Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications.

Rarebooksclub.com, United States, 2013. 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 usually...

Save eBook »



Symphony No.2 Little Russian (1880 Version), Op.17: Study Score

Petrucci Library Press, United States, 2015. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. Composed in 1872 and first performed in Moscow at the Russian...

Save eBook »



A Year Book for Primary Grades; Based on Froebel's Mother Plays

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...

Save eBook »



The First Epistle of H. N. a Crying-Voyce of the Holye Spirit of Loue. Translated Out of Base-Almayne Into English. (1574)

Eebo Editions, Proquest, 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...

Save eBook »



Variations on an Original Theme Enigma, Op. 36: Study Score

Petrucci 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, Elgars orchestral showpiece started...

Save eBook »