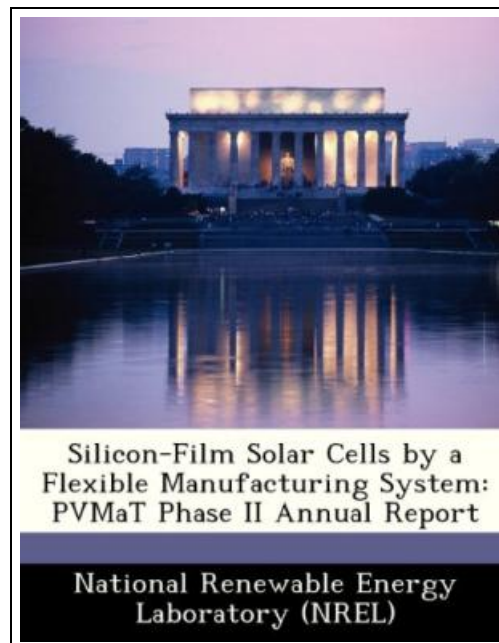


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(Dr. Augustine Borer)

SILICON-FILM SOLAR CELLS BY A FLEXIBLE MANUFACTURING SYSTEM: PVMAT PHASE II ANNUAL REPORT

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Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.AstroPower is developing a manufacturing process for Silicon-Film(TM) solar cell production under an NREL-administered Photovoltaic Manufacturing Technology (PVMaT) cost-share program. This document reports on results from the second phase of a three-phase effort. Progress is reported on the development of new procedures and equipment for in-line wet chemical processes, sheet fabrication, solar cell processing, and module assembly. Future concepts and goals for the Silicon-Film(TM) process are also discussed. A major technical goal of this effort is the elimination of batch production processes in AstroPower s solar cell process. New processes are being developed that can accommodate large-area Silicon-Film(TM) planks in an in-line, continuous manner. During Phase II of this program, an in-line chemical etching system for removing diffusion oxides was specified, procured, and installed. Operation of this system during Phase III of this program is expected to validate the in-line approach and will provide valuable information for use in the design of a second, and more challenging, in-line etch system. Significant progress was made during this reporting period in the development of new screenprinting ink formulations for both the front and back metallization of Silicon-Film(TM) solar cells. Cost reductions and efficiency improvements were achieved as a result of these efforts. Progress was made in the design of a new Silicon-Film(TM) plank machine, as well as in improved processes to fabricate this material into cost-effective and efficient solar cells. Additionally, a new large-area module concept was developed and prototyped during this phase of the PVMaT program.

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