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Silicon-Film Solar Cells by a Flexible Manufacturing System: Pvmat Phase II Annual 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 *****. 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...



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