



## Photovoltaic Manufacturing Technology: Phase I (Paperback)

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 \*\*\*\*\*.This report describes the development of a process for preparing thin crystalline silicon on a low-cut substrate. Three cells derived from this process are described; two incorporate light trapping and back surface passivation. Wafer, solar cell, and module fabrication processes and improvements of those processes by using the wafer forming process developed by AstroPower also are described. Solar cells fabricated from AstroPowers Silicon-Film wafers use less material, eliminate ingot sawing, and have the potential to achieve high production rates. Problems in fabrication processes are identified and their solutions are explained. AstroPower proposes a 3-year plan (Phase 2) to develop a high-performance, low-cost solar cell used for terrestrial power applications.



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