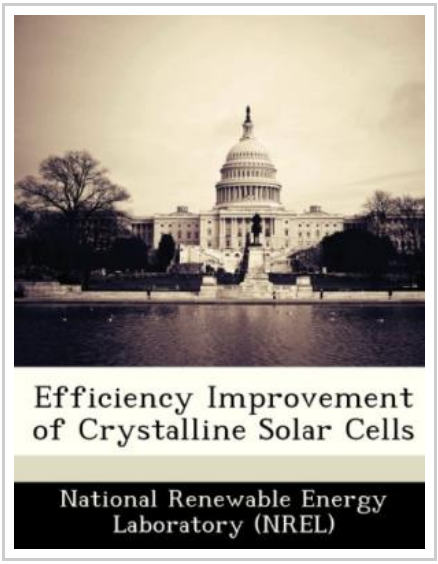

Efficiency Improvement of Crystalline Solar Cells

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 *****.The approach in this subcontract was to use unique analytical tools available at Berkeley to perform systematic fundamental physical studies of the distribution and chemical state of metal clusters in a variety of multicrystalline silicon materials. Two analytical techniques were essential for the success of this project. The total metal concentration in the areas of multicrystalline silicon with high and low lifetime was determined by neutron activation analysis, a technique that involves irradiation of a sample with neutrons in a nuclear reactor and analysis of its residual radioactivity. The distribution and chemical state of metal clusters was characterized by synchrotron radiation-based X-ray microscopes available at the Advanced Light Source (Beamlines 10.3.1 and 10.3.2) at Lawrence Berkeley National Laboratory and Advanced Photon Source (Beamlines 2-ID-D and 20-ID-B) at Argonne National Laboratory.

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