

2010 35th IEEE Photovoltaic Specialists Conference; A novel approach for heterojunction silicon wafer solar cell fabrication is being investigated: This approach features nanocomposite plasma deposited amorphous silicon suboxides (a-SiO_x:H) for high-quality surface passivation combined with overlaying plasma deposited doped microcrystalline ...

Because of the sensitivity of some photovoltaic devices to moisture-induced corrosion, they are packaged using impermeable front- and back-sheets along with an edge seal to prevent moisture ingress. Evaluation of edge seal materials can be difficult because of the low permeation rates involved and/or non-Fickian behavior. Here, using a Ca film deposited on a glass substrate, ...

2010 35th IEEE Photovoltaic Specialists Conference; This work presents a non-contact high speed printing technology for patterning high aspect ratio fine grid lines for the front side metallization of crystallized silicon solar cells. The approach of achieving fine line printing with high aspect ratio was obtained by combining focused work of ...

T2 - 35th IEEE Photovoltaic Specialists Conference, PVSC 2010. Y2 - 20 June 2010 through 25 June 2010. ER - Miller DC, Kempe MD, Glick SH, Kurtz SR. Creep in Photovoltaic Modules: Examining the Stability of Polymeric Materials and Components. 2010. Paper presented at 35th IEEE Photovoltaic Specialists Conference, PVSC 2010, Honolulu, HI, United ...

Published in: 2010 35th IEEE Photovoltaic Specialists Conference. Article #: Date of Conference: 20-25 June 2010 Date Added to IEEE Xplore: 01 November 2010 ISBN Information: Electronic ISBN: 978-1-4244-5892-9 Print ISBN: 978-1-4244-5890-5 CD: 978-1-4244-5891-2 ISSN Information: Print ISSN: ...

2010 35th IEEE Photovoltaic Specialists Conference; A space flight opportunity was seized to fly emerging solar cell, coating, and coverglass technologies in a Low Earth Orbit (LEO) environment while attached to the exterior of the International Space Station (ISS). Included in the flight manifest were nano-crystalline optimized amorphous ...

Accelerated lifetime testing of five crystalline silicon module designs was carried out according to the Terrestrial Photovoltaic Module Accelerated ... 2010 35th IEEE Photovoltaic Specialists Conference. ... Date Added to IEEE Xplore: 01 November 2010 ISBN Information: Electronic ISBN: 978-1-4244-5892-9 Print ISBN: 978-1-4244-5890 -5 ...

2010 35th IEEE Photovoltaic Specialists Conference; While Al₂O₃ has been proven to provide an excellent level of surface passivation on all sorts of p-type doped silicon surfaces, the passivation mechanism of this layer and

especially the influence of the post-deposition anneal on the Al₂O₃/Si ...

Published in: 2010 35th IEEE Photovoltaic Specialists Conference. Article #: Date of Conference: 20-25 June 2010 Date Added to IEEE Xplore: 01 November 2010 ISBN Information: Electronic ISBN: 978-1-4244-5892-9 Print ISBN: 978-1-4244-5890-5 CD: 978-1-4244-5891-2 ...

T2 - 35th IEEE Photovoltaic Specialists Conference, PVSC 2010. Y2 - 20 June 2010 through 25 June 2010. ER - Jordan DC, Kurtz SR. Analytical Improvements in PV Degradation Rate Determination. 2010. Paper presented at 35th IEEE Photovoltaic Specialists Conference, PVSC 2010, Honolulu, HI, United States. doi: 10.1109/PVSC.2010.5617074, 10.1109 ...

The mathematical description of current-voltage characteristics for photovoltaic cells are generally represented by a coupled nonlinear equation, which is difficult to solve by analytical methods. In this paper, a novel modeling process is proposed to configure a computer simulation model, which is able to demonstrate the cell's output features in terms of environment changes in irradiance ...

There is a growing need for accurate simulation of PV systems that implement new distributed electronics such as power optimizers. Accurate simulation of these ... 2010 35th IEEE Photovoltaic Specialists Conference. ... Date Added to IEEE Xplore: 01 November 2010 ISBN Information: Electronic ISBN: 978-1-4244-5892-9 Print ISBN: 978-1-4244-5890-5 ...

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Maximum power point tracking (MPPT) must usually be integrated with photovoltaic (PV) power systems so that the photovoltaic arrays are able to deliver maximum available power. In this paper, a modified adaptive hill climbing (MAHC) MPPT method is introduced. It can be treated as an extension of the traditional hill climbing algorithm. The ...

Presented at the 35th IEEE Photovoltaic Specialists Conference (PVSC '10) Honolulu, Hawaii June 20-25, 2010. NREL is a national laboratory of the U.S. Department of Energy, Office of ...

9 IEEE PHOTOVOLTAIC SPECIALISTS CONFERENCE JUNE 5, PHILADELPHIA, PA WELCOME WELCOME TO THE 49th IEEE PVSC It is with distinct pleasure and anticipation that we invite you to join us at the 49th IEEE Photovoltaic Specialists Conference on June 5-10 in Philadelphia at the spectacular Pennsylvania Convention Center.

Low-cost high efficiency solar cells are the key to achieving grid parity with photovoltaic devices. Laser processing in silicon photovoltaics is being incorpor ... 2010 35th IEEE Photovoltaic Specialists Conference.

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2010 35th IEEE Photovoltaic Specialists Conference; Heavily doped surfaces--often called emitters, diffusions, or back-surface fields--are complicated regions of a solar cell. In these regions, the dopant concentration varies over many orders of magnitude in a short distance, causing large variations in the minority carrier concentration ...

2010 35th IEEE Photovoltaic Specialists Conference; Since solar energy generation is getting more and more important worldwide PV systems and solar parks are becoming larger consisting of an increasing number of solar panels being serially interconnected. As a consequence panels are frequently exposed to high relative potentials towards ground ...

DOI: 10.1109/PVSC.2012.6317899 Corpus ID: 33903885; Generation III high efficiency lower cost technology: Transition to full scale manufacturing @article{Smith2012GenerationIH, title={Generation III high efficiency lower cost technology: Transition to full scale manufacturing}, author={David D. Smith and Peter John Cousins and Asnat Masad and Ann Waldhauer and ...

The solar PV modules are generally employed in dusty environments which is the case in tropical countries like India. The dust gets accumulated on the front sur ... 2010 35th IEEE Photovoltaic Specialists Conference. ... Date Added to IEEE Xplore: 01 November 2010 ISBN Information: Electronic ISBN: 978-1-4244-5892-9 Print ISBN: 978-1-4244-5890 ...

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