38th ieee photovoltaic specialists conference

IEEE Catalog Number: ISBN: CFP12PVS-POD 978-1-4673-2886-9 2012 IEEE 38th Photovoltaic Specialists Conference (PVSC 2012) PART 2. TABLE OF CONTENTS Control of Na Diffusion from Soda-Lime Glass and NaF Film Into Cu(In,Ga)Se2 For Thin-Film Solar

38th IEEE Photovoltaic Specialists Conference Abstract: Provides notice of upcoming conference events of interest to practitioners and researchers. Published in: Journal of Lightwave Technology (Volume: 30, Issue: 21, November 2012) Article #: Page(s): 3451 ...

Published in: 2012 38th IEEE Photovoltaic Specialists Conference. Article #: Date of Conference: 03-08 June 2012 Date Added to IEEE Xplore: 04 October 2012 ISBN Information: Electronic ISBN: 978-1-4673-0066-7 Print ISBN: 978-1-4673-0064-3 CD: 978-1-4673-0065-0 ...

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2012 38th IEEE Photovoltaic Specialists Conference The freeware program OPAL 2 computes the optical losses associated with the front surface of a Si solar cell. It calculates the losses for any angle of incidence within seconds, where the short computation time is achieved by decoupling the ray tracing from the Fresnel equations.

The photovoltaic technology is limited by costs, by the availability of spaces for photovoltaic fields and by the storage problems. The solution suggested in th ... 2012 38th IEEE Photovoltaic Specialists Conference. ... Date Added to IEEE Xplore: 04 October 2012 ISBN Information: Electronic ISBN: 978-1-4673-0066-7 Print ISBN: 978-1-4673-0064-3 ...

2011 37th IEEE Photovoltaic Specialists Conference Over the past decade, degradation and power loss have been observed in PV modules resulting from the stress exerted by system voltage bias. This is due in part to qualification tests and standards that do not adequately evaluate for the durability of modules to the long-term effects of high ...

Photovoltaic modules installed in most outdoor locations accumulate soil which reduces power output. To better understand and model this problem, and to evaluate surface treatments that might help to alleviate the problem, we developed soiling test methods to mimic specific environments. Many factors that affect accurate measurements and the extrapolation of ...

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2012 38th IEEE Photovoltaic Specialists Conference; The effect of dust settlement on the efficiency of photovoltaic modules was measured. To gain a deeper insight into the problem the physical properties of the collected dust were examined using a scanning electron microscope (SEM). A potential solution for the phenomenon, namely the usage of ...

PV module or a cluster of module failure leads to lower the generating time rate and decrease its power amount. Detection and repair are apprehended to be the c ... 2012 38th IEEE Photovoltaic Specialists Conference. ... Date Added to IEEE Xplore: 04 October 2012 ISBN Information: Electronic ISBN: 978-1-4673-0066-7 Print ISBN: 978-1-4673-0064-3 ...

2012 38th IEEE Photovoltaic Specialists Conference; In this study a novel high efficiency crystalline silicon (c-Si) solar cell concept is presented. It combines Interdigitated Back Contact (IBC) structures with Silicon Heterojunction (Si-HJ) technology through the use of Laser assisted patterning steps. The SLASH (Structuring by Laser Ablation ...

2012 38th IEEE Photovoltaic Specialists Conference; The photovoltaic technology is limited by costs, by the availability of spaces for photovoltaic fields and by the storage problems. The solution suggested in this work is the use of artificial basins or small lakes for installing PV floating plants with the following characteristics: a ...

38th IEEE Photovoltaic Specialists Conference, Austin TX, June 3-8 2012 Non-Solar Photovoltaics for Small Space Missions Geoffrey A. Landis1, Sheila G. Bailey1, Eric B. Clark1, Matthew G. Myers1, Michael F. Piszczor1, and Marcus S. Murbach2 1 NASA John Glenn Research Center, 21000 Brookpark Road, Cleveland OH 44135 U.S.A. 2 NASA Ames ...

2012 38th IEEE Photovoltaic Specialists Conference; This paper reports on the first large scale manufacturing of Gen III solar cells. The Gen III product has been designed to deliver increased performance and lower cost throughout the value chain. Reduced emitter recombination is the key feature to deliver the efficiency improvement.

The effect of dust settlement on the efficiency of photovoltaic modules was measured. To gain a deeper insight into the problem the physical properties of the collected dust were examined using a scanning electron microscope (SEM). A potential solution for the phenomenon, namely the usage of special coatings on the cover glass, was investigated. The results show a constant ...

2012 38th IEEE Photovoltaic Specialists Conference; The purpose of this work is present a low cost irradiance (W/m2) meter using a solar cell. By the constant monitoring of the open circuit voltage and the short circuit current of the solar cell it is possible to calculate the effective irradiance. This work pretends to avoid the use of ...

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