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About the Editors. List of Contributors. Preface to the 2nd Edition. 1 Achievements and Challenges of Solar Electricity from Photovoltaics (Steven Hegedus and Antonio Luque). 1.1 The Big Picture. 1.2 What is Photovoltaics? 1.3 Photovoltaics Today. 1.4 The Great Challenge. 1.5 Trends in Technology. 1.6 Conclusions. 2 The Role of Policy in PV Industry Growth: Past, ...

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7 Crystalline Silicon Solar Cells and Modules Ignacio Tob´?as1, Carlos del Canizo ~ 1 and Jesus ´ Alonso2 1 Universidad Polit´ecnica de Madrid, Madrid, Spain, 2 Isofot´on S.A., M´alaga, Spain 7.1 INTRODUCTION Crystalline silicon solar cells and modules have dominated photovoltaic (PV) technology from the beginning. They constitute more than 85% of the PV market today, and ...

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This study aims to estimate the temperature in photovoltaic cells (Tc) for polycrystalline silicon modules from a grid-connected photovolar systems through several equations proposed over the last decades by researchers, finding the best Tc equation was proposed by Duffie and Beckman.

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Yaman Abou Jieb is an electrical power engineer with a master"s degree in renewable energy engineering from Oregon Institute of Technology (OIT), which is home to the only ABET-accredited BS and MS programs in renewable energy engineering. During his master"s degree studies, he was an instructor for the electrical circuits sequence and a teaching assistant for ...

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