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Thin Films Photovoltaics. Edited by: Beddiaf Zaidi and Chander Shekhar. ISBN 978-1-83969-905-4, eISBN 978-1-83969-906-1, PDF ISBN 978-1-83969-907-8, Published 2022-02-23. Thin film photovoltaic-based solar modules produce power at a low cost per watt. They are ideal candidates for large-scale solar farms as well as building-integrated ...

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This book provides recent development in thin-film solar cells (TFSC). TFSC have proven the promising approach for terrestrial and space photovoltaics. TFSC have the potential to change ...

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12: Amorphous Silicon Thin Films 13: CIGS Thin Films 14: CdTe Thin Films 15: Dye-Sensitized Solar Cells . Additional resource: J. Poortmans and V. Arkhipov, Thin Film Solar Cells: Fabrication, Characterization and Applications. Wiley: West Sussex, 2006. ISBN 0470091266

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Despite the advancements in photovoltaics, there is only minimal reductions in the cost of crystalline silicon solar cell technology. Hence it became crucial to explore low cost photovoltaic technologies for the continuous growth of industry. Discovery of thin layer semiconductor technology has opened up the path for thin film photovoltaics (TFPV).

Thin Film Photovoltaics Ken Zweibel Thin-Film PV Partnership Program National Renewable Energy

Laboratory Golden, CO 80401 303-384-6441; 303-384-6430 (fax) ken\_zweibel@nrel.gov The Idea of Low-Cost PV The motivation to develop thin film technologies dates back to the inception of photovoltaics. It is an idea based on

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