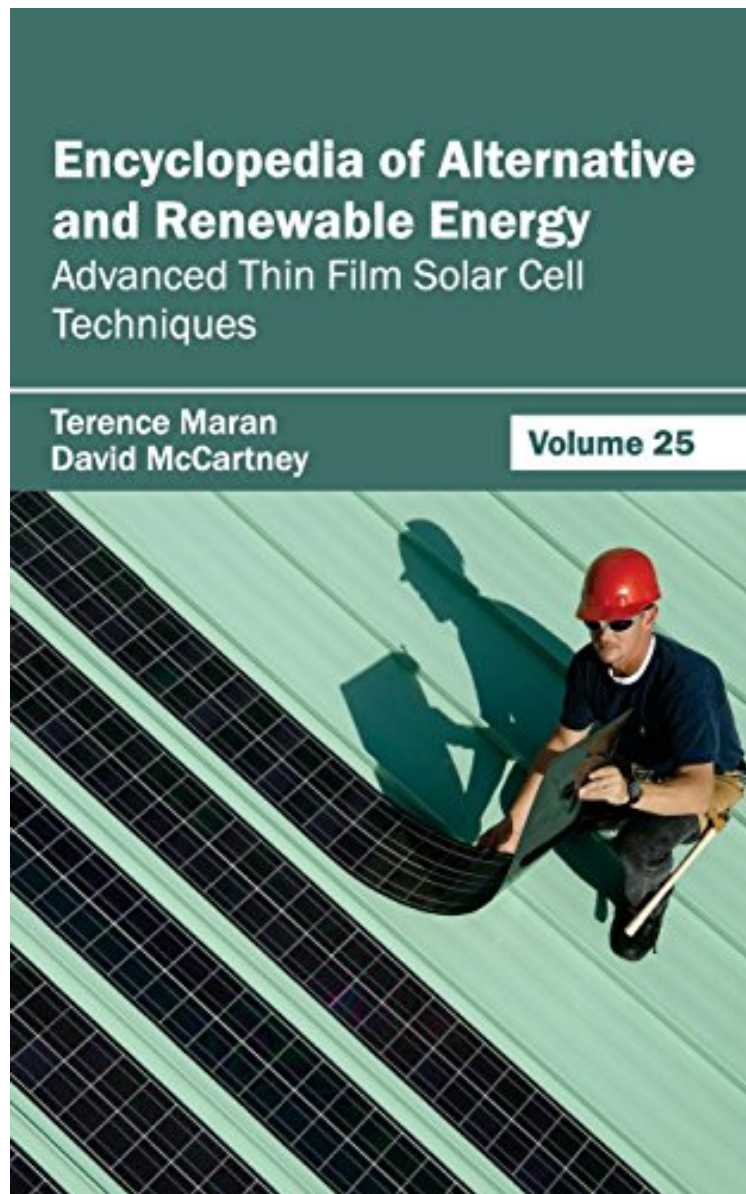


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## Encyclopedia of Alternative and Renewable Energy: Volume 25 (Advanced Thin Film Solar Cell Techniques)

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Techniques):

This is an advanced book on thin film solar cell techniques. This technique uses direct-gap semiconductors such as CIGS and CdTe pose minimum manufacturing costs and is now increasing in popularity amongst industries. The field of photovoltaics has seen a large-scale manufacturing of the second generation of thin film solar modules and has succeeded in constructing powerful solar plants in many countries across the globe. This has led to an increase in the manufacturability of thin film solar modules as compared to wafer or ribbon Si modules. Thin films like CIGS and CdTe will soon take over wafer-based silicon solar cells as the superior photovoltaic technology. This book elucidates the scientific and technological difficulties of increasing the photoelectric efficiency of thin film solar cells. It covers various aspects of thin film solar cells processing, modeling and sensitive issues, analysis of monograin layer solar cell etc. The book will be beneficial for readers interested in this subject.