



SOLAR PHOTOVOLTAICS: Fundamentals, Technologies and Applications 2/e

By Chetan Singh Solanki

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Photovoltaics (PV) is a method of generating electrical power by converting solar radiation into direct current electricity using semiconductors that exhibit the photovoltaic effect. This book comprehensively covers the fundamentals of, technologies behind and applications related to solar cells. The text elaborately explains the role of solar PV in future energy supply, properties of semiconductors, and fabrication of solar PV modules. Intended for the students of Energy Science and Engineering, this book is equally beneficial for the researchers working in the fields of photovoltaic.

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Editorial Review

About the Author

CHETAN SINGH SOLANKI, PhD, is Associate Professor in the Department of Energy Science and Engineering at the Indian Institute of Technology Bombay (IITB). He is the recipient of Young Scientist Award from European Material Research Society (2003), Young Investigator Award from IIT Bombay (2009) and several other awards for paper presentations. He has also authored a book Renewable Energy Technologies A Practical Guide for Beginners, published by PHI Learning, New Delhi. The Hindi version of this book got the first prize from the Ministry of New and Renewable Energy (MNRE) in 2011.

His research areas include high efficiency c-Si cells, thin film c-Si cells, concentrator cells and modules and nano-materials for solar cells. Dr. Solanki is currently one of the principal investigators of the National Centre for Photovoltaic Research and Education (NCPRE), funded by the MNRE, Government of India.

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