



# Fundamentals of Photovoltaic Modules and their Applications: RSC (RSC Energy Series)

By Gopal Nath Tiwari, Swapnil Dubey

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Presently there is no single publication available which covers the topics related to photovoltaic (PV) or photovoltaic thermal (PV/T) technologies, thermal modelling, CO<sub>2</sub> mitigation and carbon trading. This book disseminates the current knowledge in the fundamentals of solar energy, photovoltaic (PV) or photovoltaic thermal (PV/T) technologies, energy security and climate change and is aimed at undergraduate and postgraduate students and professionals. The main emphasis of the book is on the design, construction, performance and application of PV and PV/T from the electricity and thermal standpoint. Hot topics covered in the book include: energy security of a nation, climate change, CO<sub>2</sub> mitigation and carbon credit earned by using PV or PV/T technologies (Carbon Trading). This information will prove helpful in filling the gap between the researchers and professionals working on the application of photovoltaic and global climate change. It also covers economic, cost effective and sustainable aspects of photovoltaic technologies. The book gives a detailed history of the new technological developments in PV/T systems worldwide with system photographs and references and elaborates on the fundamentals of hybrid systems and their performances with thermal modelling. Energy and exergy analysis, techno-economic analysis and carbon trading are key chapters for research professionals. The book also includes important case studies to aid understanding of the subject for all readers.

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### Editorial Review

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#### About the Author

Professor Gopal Nath Tiwari has been at the Centre for Energy Studies, Indian Institute of Technology, Delhi, India since 1977. He gained postgraduate and doctoral degrees from Banaras Hindu University. His research interests in the field of Solar Thermal Applications are solar distillation, water/air heating system, greenhouse technology for agriculture as well as for aquaculture, Earth to air heat exchanger, passive building design and hybrid photovoltaic thermal (HPVT) systems, climate change, energy security, etc. He has successfully co-coordinated various research projects in these areas funded by the Government of India in the recent past. His contribution to the successful implementation of the hot water system in the IIT campus was highly appreciated and he was responsible for the development of the "Solar Energy Park" at IIT Delhi and Energy Laboratory at the University of Papua, New Guinea, Port Moresby. He has published over 400 research papers in prestigious journals and has authored eighteen books associated with reputable publishers namely Pergamon Press UK, CRC Press USA, Narosa Publishing House etc. As an expert in renewable energy, he has attended invited talks worldwide, chaired international conferences and presented research papers. Professor Tiwari is a co-recipient of the 'Hariom Ashram Prerit S.S. Bhatnagar' Award and has been recognized both at national and international levels. He has been offered the post of Associate Editor for the Solar Energy Journal in the area of Solar Distillation and he has also been Editor of the International Journal of Agricultural Engineering. He organized SOLARIS 2007, the third international conference on "Solar Radiation and Day lighting" held at IIT Delhi, India in 2007 and recently, Professor Tiwari has been conferred "Vigyan Ratna" by the Government of U.P., India. Dr Swapnil Dubey is at the Centre for Energy Studies, Indian Institute of Technology, Delhi, India. He received a Bachelor of Engineering degree in Mechanical Engineering from the Institute of Engineering and Technology, Devi Ahilya Vishwavidyalaya, Indore in 2003 and gained a postgraduate degree in Energy Studies from the Centre for Energy Studies, Indian Institute of Technology (IIT) Delhi in 2006. He assisted in the organisation of SOLARIS 2007, the third international conference on "Solar Radiation and Day lighting" held at IIT Delhi, India in 2007. He has also participated in the UK-India-Sri Lanka Young Scientists Networking Conference on 'Towards sustainable energy technologies and low-carbon buildings for climate change mitigation' organized by the British Council in 2007 in New Delhi. He has published twelve research papers

in international journals including: Solar Energy, Applied Energy, Energy Research, Energy and Buildings and Renewable Energy and has presented four research papers at international conferences. His areas of research interest are solar thermal, photovoltaics, thermodynamics, heat and mass transfer, exergy, CO<sub>2</sub> mitigation, climate change and carbon trading.

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