Contents :

1. History and Application of Solar PV System Vinay Rana, Arjun Tyagi, Krishan Kumar, and Himanshu Grover

2. Solar Power Forecasting Agrim Khurana, Ankit Dabas, Vaibhav Dhand, Rahul Kumar, Bhavnesh Kuma, r and Arjun Tyagi

3. Comprehensive Technique for Modelling of PV Module Vandana Jha

4. Conventional Techniques for Maximum Power Point Tracking Shilpi Yadav, Kamlesh K. Bharti, Vijay Kumar Tewari, Santosh Kumar Tripathi, and Rajesh Kumar

5. Intelligent Techniques for Maximum Power Point Tracking Dilip Yadav and Nidhi Singh

6. Analysis of Multijunction Solar Cell-Based PV System with MPPT Schemes Omveer Singh and Mukul Singh

7. Emerging Techniques of Shade Dispersion Faizan Nomani, Bhavnesh Kumar, and Bhanu Pratap

8. Solar Tracking Technology to Harness the Green Energy Ram Krishan, K. Anil Naik, and R. David Amar Raj

9. DEvelopment of Solar Panels Models in Several Countries/Regions I. S. Qamber

10. Performance Degradation in Solar Modules Shabbir S. Bohra

11. Performance and Reliability Investigation of Practical Microgrid with Photovoltaic Units Burhan U Din Abdullah, Shiva Pujan Jaiswal, Suman Lata, Suman Dulal, and Vivek Shrivastava