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Disciplina	621.319
Soggetti	Electric power production Renewable energy sources Wind power Solar energy Electric power distribution Sustainable architecture Electrical Power Engineering Renewable Energy Wind Energy Solar Thermal Energy Energy Grids and Networks Sustainable Architecture/Green Buildings
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Control of PMSM Drive Using Lookup Table Based Compensated Duty Ratio Optimized Direct Torque Control (DTC) -- Chapter 2. An Optimal Sizing of a Three-Phase PMSM Based on Volume, Cogging Torque, and Power Loss Minimization -- Chapter 3. MPC based frequency regulation for shipboard microgrid -- Chapter 4. Voltage Instability detection and Adaptive Reactive power compensation using L index -- Chapter 5. A Review on Developments and Applications of Fractional-order Kalman Filter -- Chapter 6. Probabilistic Load Flow Study Considering Fuzzy Logic based Contingency Sequencing for Network Outages -- Chapter 7.

Reconfiguration of Power Distribution Network for Improvement of System Performance: A Critical Review -- Chapter 8. Solar Power Forecasting Using Deep Learning Approach -- Chapter 9. Optimization Techniques of Load Frequency Control for Renewable Integrated Two-Area Power System -- Chapter 10. On Selection of Solar Position-Dependent Regressor Set for Variability Modeling of Nature-Inspired Time Series -- Chapter 11. AI Interface of Smart Grid for Revamp of Electrical Infrastructure -- Chapter 12. A Comparative Study of the Justifications Provided for Aerodynamic Lift -- Chapter 13.

Optimization of Dielectric material and Gradings of the Post Type FGM Spacer for a Multi-Objective Function -- Chapter 14. Nonlinear behaviour of rotor angle dynamics in three machine infinite bus power system -- Chapter 15. Microgrid in Grid-tied and Islanded Mode\_ Asset Configuration and Operating Cost Optimization. etc.

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#### Sommario/riassunto

This book contains selected papers presented at Second International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2023), organized by the Department of Electrical Engineering, NIT Meghalaya, Shillong, India, during February 24–25, 2023. The topics covered in the book are the cutting-edge research involved in sustainable energy technologies, smart building technology, integration and application of multiple energy sources; advanced power converter topologies and their modulation techniques; and information and communication technologies for smart micro-grids.

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