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Autore	Brissenden, R. F.
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Autore	Salkuti Surender Reddy
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Nota di contenuto	1. An Introduction to Energy Management in Smart Energy Systems --

2. Integration of Photovoltaic Distributed Generation into Grid -- 3. Fault Diagnosis Methodologies for Electric Vehicle Batteries -- 4. Development of Dataset to Diagnose Electric Vehicle Battery Faults Using Deep Learning Techniques -- 5. Performance Evaluation of Artificial Neural Networks for Electric Vehicle State of Charge Estimation across Different Driving Cycles -- 6. Mitigating impacts of electric vehicle charging stations on voltage profile and power loss of the distribution systems based on operation optimization of soft-open-point using a metaheuristic algorithm -- 7. Dead beat predictive control of a Grid-Tied PV-hybrid energy storage system -- 8. GJO Pattern Search Algorithm-based DG and Capacitor Placement in Distribution Network with Zone based Installation of EVCS -- 9. AI Driven Optimization Techniques for Electric Vehicle Charging Infrastructure -- 10. Artificial Intelligence in Electric Vehicles for Sustainable Driving.

Sommario/riassunto

This book aims to find solutions to various issues starting from integration and control of next generation grids, hybrid power generation, electric vehicles, energy storage, forecasting, wide area monitoring, electrical markets, communication, coordinated control and protection, empowering the customer with tools for optimizing their energy consumption, and security for the effective, reliable and risk-free operation of the power networks. There is a requirement to conduct a comprehensive analysis of the integration of a large number of EVs and their impact on various sectors of society. This book also discusses the applications of advanced power electronics, intelligent control techniques, effective energy management, EV charging networks, the impact of EV load on distribution systems, economic analysis, and power markets, advanced flexibility strategies for smart grids, recent advances in energy storage, and research directions emerging fields such as artificial intelligence, internet of things, and machine learning. Several developments in green energy technologies have gained momentum in recent years. This book considers the nuances of new paradigms including green energy technologies, smart grid components, the impact of energy storage, electric vehicles, and distributed energy resources in the power networks. It provides illustrative and comprehensive strategies to furnish pragmatic solutions to multifaceted challenges, ushering in a new era of heightened efficiency, unwavering reliability, and enhanced overall performance in modern smart and hybrid energy systems.