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Nota di contenuto	Intelligent Energy Management System for Load Prioritizing using Solar panel -- Improvement of PQ and Reliability with Quasi Z-source Inverter Based DSTATCOM Using ALMS -- A Review of Cell Balancing Techniques for Optimizing Performance of a Battery Pack -- Design and Implementation of Battery Parameter Simulator -- Performance Evaluation of PV Array Topologies under various Partial Shading Conditions -- Review of Microgrid Control for campus environment Using Energy Management Systems For Wind Solar Biomass Energy Integration -- Design and Development of Bidirectional DC-DC Converter for Electric Vehicle Application -- Three Phase Transformerless Inverter for Grid Connected PV System -- Comparative Analysis of Advanced Driver Assistance Systems (ADAS) in Automobiles -- Analysis of Solar PV fed Bidirectional Cuk converter for Battery Energy Storage Systems.
Sommario/riassunto	This book includes select peer-reviewed proceedings from the International Conference on Advances in Renewable Energy and Electric Vehicles (AREEV 2023). It emphasizes the applications of electric

vehicles, which are set to dominate the transportation sector by replacing conventional internal combustion engine (ICE) vehicles. Additionally, the book examines research related to power quality issues arising from vehicle-to-grid integration, along with the challenges presented by distributed network management systems. It also addresses topics such as wide band-gap semiconductor technologies and the modeling and simulation of power electronic converters. This book will serve as a valuable reference for beginners, researchers, and professionals interested in renewable energy, electric vehicles, power electronics, and power systems.