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Nota di contenuto	Capacity fading characteristics of lithium iron phosphate batteries under different precooling conditions -- Research on detection method of metal foreign objects in electric vehicle wireless power transfer system -- An Adaptive Equivalent Heat Minimization Strategy for Hybrid Electric Trucks Braking Considering Brake Temperature Rise in Long Downhills -- Field-oriented control strategy verification based on power hardware in loop simulation technology -- Hybrid estimation of residual capacity for retired LFP batteries -- Design of a full-time security protection system for energy storage stations based on digital twin technology -- Online Electrical Fault Diagnosis and Low-Cost State Estimation for Lithium-Ion Battery Pack Based Electric Drive System -- Capacity prediction of lithium-ion battery based on HGWO-SVR -- Life Cycle Carbon Footprint Assessment of Power Transmission Equipment -- Performance optimization of Tesla valve microchannel cold plates for Li-ion battery.

Sommario/riassunto

This book includes original, peer-reviewed research papers from the 5th International Conference on Energy Storage and Intelligent Vehicles (ICEIV 2022), held online, from December 3 to December 4, 2022. The topics covered include but are not limited to energy storage, power and energy systems, electrified/intelligent transportation, batteries and management, and power electronics. The papers share the latest findings in energy storage and intelligent vehicles, making the book a valuable asset for researchers, engineers, university students, etc.