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Autore	Yang Shichun
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Nota di contenuto	Electric vehicle -- EV power battery -- Key technologies of BMS -- Battery model -- SOC estimation -- SOH estimation.
Sommario/riassunto	The battery management system (BMS) optimizes the efficiency of batteries under allowable conditions and prevents serious failure modes. This book focuses on critical BMS techniques, such as battery modeling; estimation methods for state of charge, state of power and state of health; battery charging strategies; active and passive balancing methods; and thermal management strategies during the entire lifecycle. It also introduces functional safety and security-related design for BMS, and discusses potential future technologies, like digital twin technology.