5 Courses

Introduction to battery-management systems

Equivalent Circuit Cell Model Simulation

Battery State-of-Charge (SOC) Estimation

Battery State-of-Health (SOH) Estimation

Battery Pack Balancing and Power Estimation

Mar 3, 2021

PEI ZHAO

has successfully completed the online, non-credit Specialization

Algorithms for Battery Management Systems

To earn this certificate, participants must score 80% or higher on all quizzes and programming assignments. The specialization teaches participants the major functions that must be performed by a battery management system, how lithium-ion battery cells work, and how to model their behaviors mathematically. It focuses on how to write algorithms to estimate state-of-charge, state-of-health, remaining energy, and available power, and on how to balance cells in a battery pack.

Dr. Gregory L. Plett
Professor, Department of Electrical and Computer Engineering
University of Colorado Colorado Springs

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