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Autore	Pesaran Ahmad A.
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Soggetti	Electric vehicles - Batteries Lithium ion batteries SCIENCE / Chemistry / Industrial & Technical TECHNOLOGY & ENGINEERING / Automotive Industrial chemistry and chemical engineering Automotive technology and trades
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Nota di contenuto	Newly developed lithium-ion battery pack technology for a mass-market electric vehicle (2013-01-1543) -- High-voltage battery system concepts for ISO 26262 compliance (2013-01-0181) -- Li-ion battery SOC estimation using non-linear estimation strategies based on equivalent circuit model (2014-01-1849) -- Development of battery hardware-in-the-loop system implemented with reduced-order electrochemistry li-ion battery models (2014-01-1858) -- Effect of electrode tabs configuration on the electric-thermal behavior of a li-ion battery (2014-01-1862) -- Thermal behavior of two commercial li-ion batteries for plug-in hybrid electric vehicles (2014-01-1840) -- Accelerated life test methodology for li-ion batteries in automotive applications (2013-01-1548) -- Thermal management modeling for avoidance of thermal runaway conditions in lithium ion batteries (2014-01-0707) -- Lithium-ion battery pack for stop and start systems (2013-01-1538) -- Identification of transportation battery

systems for recycling (2012-01-0351).

Sommario/riassunto

This special SAE publication is focused on lithium ion technologies in electric drive vehicles (HEVs, PHEVs, EVs, EREVs, mild HEVs with 48 V. and even conventional vehicles with start/stop technology) Ten SAE technical papers are included in this publication, which examines several relevant issues for the implementation of lithium ion technology and reviews solutions offered in addressing those issues.
