



Mathematical Modeling of Lithium Batteries: From Electrochemical Models to State Estimator Algorithms (Green Energy and Technology)

Krishnan S. Hariharan

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Compiling state of the art approaches in mathematical modeling of lithium batteries, this monograph develops a theoretical framework of various modeling approaches, and discusses recent trends in research and their applications and limitations. It draws together the plethora of existing published research, and provides a much-needed coherent framework of battery modeling techniques. The book explores electrochemical models (EM), electrochemical impedance spectroscopy models (EIS), equivalent circuit models (ECM) and reduced order models (ROM), as well as fundamental theory, equations, model development and solution methodology to algorithms. Providing an invaluable resource to industrial R & D departments and electric vehicle manufacturers, this book is also intended for battery consortiums and academic research groups involved in battery modelling.

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