



Fuel Cells: Modeling, Control, and Applications (Power Electronics and Applications Series)

Bei Gou, Woonki Na, Bill Diong

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Fuel Cells: Modeling, Control, and Applications describes advanced research results on modeling and control designs for fuel cells and their hybrid energy systems. Filled with simulation examples and test results, it provides detailed discussions on fuel cell modeling, analysis, and nonlinear control.

The book begins with an introduction to fuel cells and fuel cell power systems as well as the fundamentals of fuel cell systems and their components. It then presents the linear and nonlinear modeling of fuel cell dynamics, before discussing typical approaches of linear and nonlinear modeling and control design methods for fuel cells. The authors also explore the Simulink implementation of fuel cells, including the modeling of PEM fuel cells and control designs. They cover the applications of fuel cells in vehicles, utility power systems, stand-alone systems, and hybrid renewable energy systems. The book concludes with the modeling and analysis of hybrid renewable energy systems, which integrate fuel cells, wind power, and solar power. Mathematical preliminaries on linear and nonlinear control are provided in an appendix.

With the need for alternative power well established, we are seeing unprecedented research in fuel cell technology. Written by scientists directly involved with the research, this book presents approaches and achievements in the linear and nonlinear modeling and control design of PEM fuel cells.

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