

Modeling And High Performance Control Of Electric Machines



Modeling And High Performance Control

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Modeling and High Performance Control of Electric Machines ...

JOHN CHIASSON, PhD, is on the faculty of the Department of Electrical and Computer Engineering at Boise State University in Boise Idaho. His research interests include the areas of power electronics and the control of electrical machines.

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MODELING AND HIGH-PERFORMANCE CONTROL OF ELECTRIC MACHINES JOHN CHIASSON IEEE SÜ PRESS t SERIES | ON POWER ENGINEERING IEEE Press Series on Power Engineering Mohamed E. El-Hawary, Series Editor The Institute of Electrical and Electronics Engineers, Inc., New York WILEY-INTERSCIENCE A JOHN WILEY & SONS, INC., PUBLICATION

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Modeling and High Performance Control of Electric Machines introduces you to both the modeling and control of electric machines. The direct current (DC) machine and the alternating current (AC) machines (induction, PM synchronous, and BLDC) are all covered in detail. The author emphasizes control ...

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It consists of 4 components: Control strategy, Inverter, PMSM model and Dynamic model. A right combination of these four elements determines the performance of electric vehicles. VHDL (Very High Speed Integrated Circuit Hardware Description Language) is a commonly used modelling language for specifying digital designs and event-driven systems.

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Nonlinear Dynamic Modeling for High Performance Control of a Quadrotor Moses Bangura, Robert Mahony Australian National University, Canberra, Australia Moses.Bangura@anu.edu.au, Robert.Mahony@anu.edu.au Abstract In this paper, we present a detailed dynamic and aerodynamic model of a quadrotor that can be used for path planning and control de ...

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