

Dynamics and control of switched electronic systems : advanced perspectives for modeling, simulation and control of power converters

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Abstrak

Dynamics and control of switched electronic systems draws on the expertise of an international group of expert contributors to give an overview of recent advances in the modeling, simulation and control of switched electronic systems. The reader is provided with a well-organized source of references and a mathematically-based report of the state of the art in analysis and design techniques for switched power converters. Intuitive language, realistic illustrative examples and numerical simulations help the reader to come to grips with the rigorous presentation of many promising directions of research such as, converter topologies and modulation techniques, continuous-time, discrete-time and hybrid models, modern control strategies for power converters, and challenges in numerical simulation.