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Introduction to Microcontroller Programming for Power Electronics Control Applications Applied
Control of Electrical Drives Development of Adaptive Speed Observers for Induction Machine System
Stabilization

Introduction to Microcontroller Programming for Power Electronics Control Applications

2021-09-29 develops key concepts from scratch including a brief review of control theory and modeling strategies for power electronic based systems focuses on the launchpadtm f28069m board from texas instrumentstm to provide the reader some basic programming strategies proposes several control problems in terms of power management of rl and rlc loads e g dc dc converters and closed loop control of dc motors examines control schemes as well as the working principles of power converter topologies needed to drive the systems under investigation includes exercises while presenting a processor in the loop pil technique to emulate the dynamics of complex systems

Applied Control of Electrical Drives 2015-09-17 provides an overall understanding of all aspects of ac electrical drives from the motor and converter to the implemented control algorithm with minimum mathematics needed demonstrates how to implement and debug electrical drive systems using a set of dedicated hardware platforms motor setup and software tools in vissimtm and plecstm no expert programming skills required allowing the reader to concentrate on drive development enables the reader to undertake real time control of a safe low voltage and low cost experimental drive this book puts the fundamental and advanced concepts behind electric drives into practice avoiding involved mathematics whenever practical this book shows the reader how to implement a range of modern day electrical drive concepts without requiring in depth programming skills it allows the user to build and run a series of ac drive concepts ranging from very basic drives to sophisticated sensorless drives hence the book is the only modern resource available that bridges the gap between simulation and the actual experimental environment engineers who need to implement an electrical drive or transition from sensed to sensorless drives as well as students who need to understand the practical aspects of working with electrical drives will greatly benefit from this unique reference

Development of Adaptive Speed Observers for Induction Machine System Stabilization 2020-01-03

this book describes the development of an adaptive state observer using a mathematical model to achieve high performance for sensorless induction motor drives this involves first deriving an expression for a modified gain rotor flux observer with a parameter adaptive scheme to estimate the motor speed accurately and improve the stability and performance of sensorless vector controlled induction motor drives this scheme is then applied to the controls of a photovoltaic motor water pumping system which results in improved dynamic performance under different operating conditions the book also presents a robust speed controller design for a sensorless vector controlled induction motor drive system based on h theory which overcomes the problems of the classical controller

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