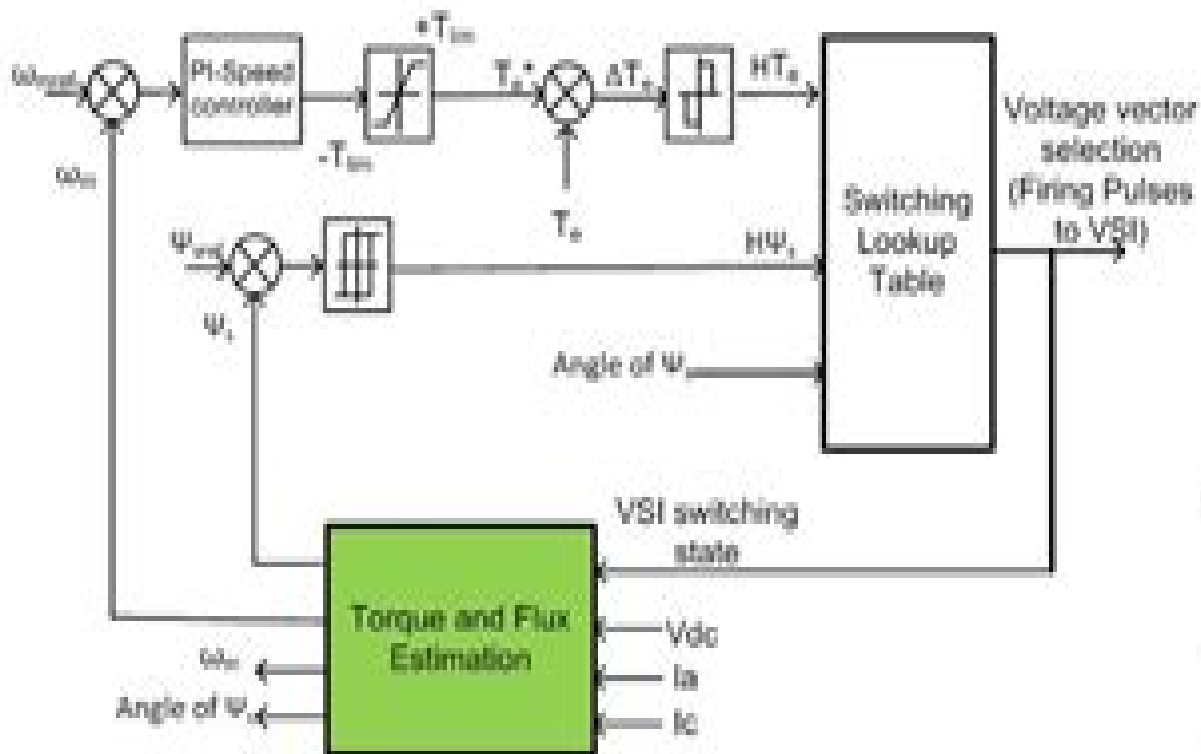


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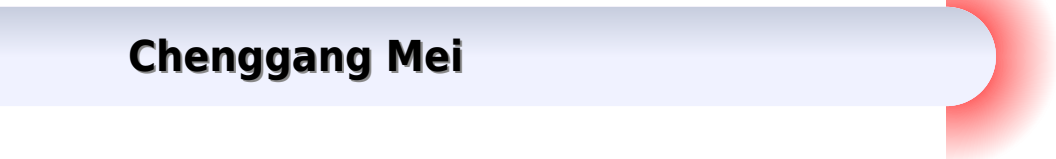


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Induction Motor Torque Control

Chenggang Mei



Induction Motor Torque Control:

Induction Motors Bahram Amin,2001-11-20 This book provides a thorough approach for mastering the behavior and operation of induction motors an essential device in the modern industrial world Its way of presentation renders this book suitable for selfteaching by students engineers and researchers in the field of electrical engineering It covers the modern theory of induction motor applications and control methods The transient analysis of both three phase and single phase induction motors as well as that of the double cage motors are developed The principles of such modern control methods as Fiel Oriented Control Direct Torque Control and Computed Charges Acceleration Method are clearly treated in this monograph Numerous equations simulations and figures are presented *Design of Direct Torque Control of an Induction Motor in FPGA* Kumar B P Santosh,2014-12-22 Direct torque control or DTC is a very latest ac drive technology which can replace traditional PWM drives of open or closed loop control method DTC describes the control of torque of a motor directly based on the electromagnetic state of the motor as similar to a dc drive DTC allows the motor s torque and stator flux to be used as the primary control variables which are obtained directly from the motor by using advanced motor theory The major problems faced by Direct Torque control of an induction machine are the production of the high torque ripples present in the output of the induction motor The torque ripple is caused by the use of the three level hysteresis comparator for torque comparison This ripple can be reduced by using a special controller for torque comparison By proper selection of the torque controller parameters the torque ripple can be reduced The objective of the thesis is to model and simulate the direct torque control of the induction motor with this technique using MATLAB simulink package and show its feasibility by comparing it with the available DTC method The models are developed from the various mathematical equations governing the system

Direct Torque Control of Induction Motor Drive Chenggang Mei,2000 *Control in Power Electronics* Marian P. Kazmierkowski,Ramu Krishnan,Frede Blaabjerg,2002-08-30 The authors were originally brought together to share research and applications through the international Danfoss Professor Programme at Aalborg University in Denmark Personal computers would be unwieldy and inefficient without power electronic dc supplies Portable communication devices and computers would also be impractical High performance lighting systems motor controls and a wide range of industrial controls depend on power electronics In the near future we can expect strong growth in automotive applications dc power supplies for communication systems portable applications and high end converters We are approaching a time when all electrical energy will be processed and controlled through power electronics somewhere in the path from generation to end use The most up to date information available is presented in the text Written by a world renowned leader in the field

Direct Torque Control Strategies of Electrical Machines Fatma Ben Salem,2021-01-20 This book deals with the design and analysis of Direct Torque Control DTC It introduces readers to two major applications of electrical machines speed drive and position control and gives the readers a comprehensive overview of the field of DTC dedicated to AC

machines It includes new DTC approaches with and without control of commutation frequency It also covers DTC applications using artificial intelligence The book combines theoretical analysis simulation and experimental concepts To make the content as accessible as possible the book employs a clear proposal in each chapter moving from the background to numerical development and finally to case studies and illustrations The book is a wide ranging reference source for graduate students researchers and professors from related fields and it will benefit practicing engineers and experts from the industry

Electrical Engineer's Reference Book M. A. Laughton,D.F. Warne,2002-09-27 For ease of use this edition has been divided into the following subject sections general principles materials and processes control power electronics and drives environment power generation transmission and distribution power systems sectors of electricity use New chapters and major revisions include industrial instrumentation digital control systems programmable controllers electronic power conversion environmental control hazardous area technology electromagnetic compatibility alternative energy sources alternating current generators electromagnetic transients power system planning reactive power plant and FACTS controllers electricity economics and trading power quality An essential source of techniques data and principles for all practising electrical engineers Written by an international team of experts from engineering companies and universities Includes a major new section on control systems PLCs and microprocessors

Direct Flux and Torque Control for Dual-three Phase Induction Motor Drives Francesco Farina (ingegnere elettrico),2005

Induction Motors Rui Esteves Araújo,2012-11-14 Motivated by the need of energy efficiency improvements process optimization soft start capability and numerous other environmental benefits it may be desirable to operate induction motors for many applications at continuously adjustable speeds The induction motor drives can provide high productivity with energy efficiency in different industrial applications and are the basis for modern automation This book provides an account of this developing subject through such topics as modelling noise control techniques used for high performance applications and diagnostics Compiled from contributions by international researchers this is not a textbook but the result is an interesting exploration of this technology that provides a combination of theory implementation issues and practical examples

Control Techniques Drives and Controls Handbook Bill Drury,2001 Annotation A comprehensive guide to the technology underlying drives motors and control units this title contains a wealth of technical information for the practising drives and electrical engineer

Hybrid Systems: Computation and Control Manfred Morari,2005-03-04 This book constitutes the refereed proceedings of the 8th International Workshop on Hybrid Systems Computation and Control HSCC 2005 held in Zurich Switzerland in March 2005 The 40 revised full papers presented together with 2 invited papers and the abstract of an invited talk were carefully reviewed and selected from 91 submissions The papers focus on modeling analysis and implementation of dynamic and reactive systems involving both discrete and continuous behaviors Among the topics addressed are tools for analysis and verification control and optimization modeling engineering applications and emerging directions in programming language

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