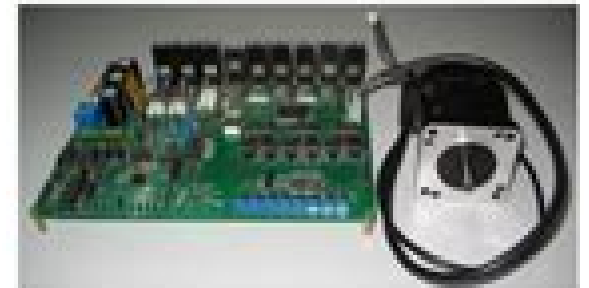


Chapter 2

Mathematical Model and Characteristics Analysis of the BLDC motor



Chapter 2 The Mathematical Model Of A Brushless Dc Motor

**Wei Xu, Moustafa Magdi Ismail, Md.
Rabiul Islam**



Chapter 2 The Mathematical Model Of A Brushless Dc Motor:

Permanent Magnet Brushless DC Motor Drives and Controls Chang-liang Xia,2012-04-24 An advanced introduction to the simulation and hardware implementation of BLDC motor drives A thorough reference on the simulation and hardware implementation of BLDC motor drives this book covers recent advances in the control of BLDC motor drives including intelligent control sensorless control torque ripple reduction and hardware implementation With the guidance of the expert author team readers will understand the principle modelling design and control of BLDC motor drives The advanced control methods and new achievements of BLDC motor drives of interest to more advanced readers are also presented Focuses on the control of PM brushless DC motors giving readers the foundations to the topic that they can build on through more advanced reading Systematically guides readers through the subject introducing basic operational principles before moving on to advanced control algorithms and implementations Covers special issues such as sensorless control intelligent control torque ripple reduction and hardware implementation which also have applications to other types of motors Includes presentation files with lecture notes and Matlab 7 coding on a companion website for the book *Bioengineering and Biomaterials in Ventricular Assist Devices* Eduardo Guy Perpétuo Bock,2021-10-07 Often associated with artificial hearts ventricular assist devices VADs are blood pumps that can provide circulatory assistance to the left ventricle the right ventricle or both Bioengineering and Biomaterials in Ventricular Assist Devices reviews constructive details of VADs and the biomaterials used in their development and support FEATURES Establishes an area of intersection between engineering and medicine Shows process development from mechanical design to automation and control Discusses biofunctional materials tribology in ceramic biomaterials biosensors and surface engineering and blood This text is aimed at advanced students researchers and practicing engineers conducting work on VADs and will be of interest to a broad interdisciplinary group including bioengineers materials engineers chemical engineers mechanical engineers and electrical engineers **Advances in Smart System Technologies** P. Suresh,U. Saravanakumar,Mohammed Saleh Hussein Al Salameh,2020-08-29 This book presents select peer reviewed proceedings of the International Conference on Frontiers in Smart Systems Technologies ICFSSST 2019 It focuses on latest research and cutting edge technologies in smart systems and intelligent autonomous systems with advanced functionality Comprising topics related to diverse aspects of smart technologies such as high security reliability miniaturization energy consumption and intelligent data processing the book contains contributions from academics as well as industry Given the range of the topics covered this book will prove useful for students researchers and professionals alike *Modeling, Analysis, and Tracking Control of Brushless DC Motors for Robotic Applications* Neyram Hemati,1988 Permanent Magnet Synchronous Machines and Drives Wei Xu,Moustafa Magdi Ismail,Md. Rabiul Islam,2023-07-31 Permanent magnet synchronous motors PMSMs are popular in the electric vehicle industry due to their high power density large torque to inertia ratio and high reliability This book presents an improved field oriented control

FOC strategy for PMSMs that utilizes optimal proportional integral PI parameters to achieve robust stability faster dynamic response and higher efficiency in the flux weakening region The book covers the combined design of a PI current regulator and varying switching frequency pulse width modulation PWM along with an improved linear model predictive control MPC strategy Researchers and graduate students in electrical engineering systems and control and electric vehicles will find this book useful Features Implements evolutionary optimization algorithms to improve PMSM performance Provides coverage of PMSM control design in the flux weakening region Proposes a modern method of model predictive control to improve the dynamic performance of interior PMSM Studies the dynamic performance of two kinds of PMSMs surface mounted and interior permanent magnet types Includes several case studies and illustrative examples with MATLAB This book is aimed at researchers graduate students and libraries in electrical engineering with specialization in systems and control and electric vehicles

Power Electronics Handbook Muhammad H. Rashid, 2017-09-09 Power Electronics Handbook Fourth Edition brings together over 100 years of combined experience in the specialist areas of power engineering to offer a fully revised and updated expert guide to total power solutions Designed to provide the best technical and most commercially viable solutions available this handbook undertakes any or all aspects of a project requiring specialist design installation commissioning and maintenance services Comprising a complete revision throughout and enhanced chapters on semiconductor diodes and transistors and thyristors this volume includes renewable resource content useful for the new generation of engineering professionals This market leading reference has new chapters covering electric traction theory and motors and wide band gap WBG materials and devices With this book in hand engineers will be able to execute design analysis and evaluation of assigned projects using sound engineering principles and adhering to the business policies and product program requirements Includes a list of leading international academic and professional contributors Offers practical concepts and developments for laboratory test plans Includes new technical chapters on electric vehicle charging and traction theory and motors Includes renewable resource content useful for the new generation of engineering professionals

Position Sensorless Control Techniques for Permanent Magnet Synchronous Machine Drives Gaolin Wang, Guoqiang Zhang, Dianguo Xu, 2019-11-15 The book focuses on position sensorless control for PMSM drives addressing both basic principles and experimental evaluation It provides an in depth study on a number of major topics such as model based sensorless control saliency based sensorless control position estimation error ripple elimination and acoustic noise reduction Offering a comprehensive and systematic overview of position sensorless control and practical issues it is particularly suitable for readers interested in the sensorless control techniques for PMSM drives The book is also a valuable resource for researchers engineers and graduate students in fields of ac motor drives and sensorless control

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Handbook of Electric Motors Richard H. Engelmann,William H. Middelndorf,1995 This handbook provides

comprehensive coverage of every type of electric motor in use today from the generic forms of direct current induction and synchronous machines to permanent magnet DC motors linear induction motors and stepper motors Related topics such as finite element analysis control protection testing reliability maintenance specification procedures and environmental and mechanical factors are discussed **Variable Structure Control for Robotics and Aerospace Applications** Kar-Keung David Young,1993 **Proceedings** ,1996

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