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for introductory senior level and graduate level courses in electric drives power electronics the book develops a systematic approach to motor drives while the

emphasis is on practice extensive modeling simulation and analysis is developed to assist readers in their understanding of the subject matter from fundamental principles also each motor drive is illustrated with an industrial application in detail at the end of chapters to enable readers to relate theory to practice

despite two decades of massive strides in research and development on control strategies and their subsequent implementation most books on permanent magnet motor drives still focus primarily on motor design providing only elementary coverage of control and converters addressing that gap with information that has largely been disseminated only in journals and at conferences permanent magnet synchronous and brushless dc motor drives is a long awaited comprehensive overview of power electronic converters for permanent magnet synchronous machines and control strategies for variable speed operation it introduces machines power devices inverters and control and addresses modeling implementation control strategies and flux weakening operations as well as parameter sensitivity and rotor position sensorless control suitable for both industrial and academic audiences this book also covers the simulation low cost inverter topologies and commutation torque ripple of pm brushless dc motor drives simulation of the motor drives system is illustrated with matlab codes in the text this book is divided into three parts fundamentals of pm synchronous and brushless dc machines power devices inverters pm synchronous motor drives and brushless dc motor drives with regard to the power electronics associated with these drive systems the author explores use of the standard three phase bridge inverter for driving the machine power factor correction and inverter control introduces space vector modulation step by step and contrasts with pwm details dead time effects in the inverter and its compensation discusses new power converter topologies being considered for low cost drive systems in pm brushless dc motor drives this reference is dedicated exclusively to pm ac machines with a timely emphasis on control and standard and low cost converter topologies widely used for teaching at the doctoral level and for industrial audiences both in the u s and abroad it will be a welcome addition to any engineer s library

this book provides the most important steps and concerns in the design of estimation and control algorithms for induction motors a single notation and modern nonlinear control terminology is used to make the book accessible although a more theoretical control viewpoint is also given focusing on the induction motor with the concepts of stability and nonlinear control theory given in appendices this book covers speed sensorless control design of adaptive observers and parameter estimators a discussion of nonlinear adaptive controls containing parameter estimation algorithms and comparative simulations of different control algorithms the book sets out basic assumptions structural properties modelling state feedback control and estimation algorithms then moves to more complex output feedback control algorithms based on stator current measurements and modelling for speed sensorless control the induction motor exhibits many typical and unavoidable nonlinear features

bringing together a diverse team of renowned accounting scholars this incisive research handbook presents a comprehensive evaluation of current research on nonprofit accounting noting its major accomplishments and outlining opportunities for future study

this book constitutes the refereed proceedings of the 12th international conference on trust privacy and security in digital business trustbus 2015 held in valencia spain in september 2015 in conjunction with dexa 2015 the 17 revised full papers presented were carefully reviewed and selected from 45 submissions

the papers are organized in the following topical sections access control trust and reputation in pervasive environments trust and privacy issues in mobile environments security and privacy in the cloud security policies usability issues and privacy requirements and privacy audit

this book includes high quality research papers presented at symposium on power electronic and renewable energy systems control peresc 2020 which is held at the school of electrical sciences iit bhubaneswar odisha india during 4 5 december 2020 the book covers original work in power electronics which has greatly enabled integration of renewable and distributed energy systems control of electric machine drives high voltage system control and operation the book is highly useful for academicians engineers researchers and students to be familiar with the latest state of the art in power electronics technology and its applications

performance measurement is a critical dimension of management control theory and practice and one of the most widely researched areas of management accounting the research handbook on performance measurement for management control provides the foundation for the next generation of research in management accounting on performance measurement by canvassing the contemporary landscape of performance measurement research and outlining future research opportunities

electric vehicle technologies trends control and charging solutions explores the latest innovations transforming electric transportation this concise and accessible volume presents advances in electric vehicle ev systems focusing on solar energy integration intelligent motor control battery charging technologies and iot based applications the book is divided into three thematic sections it begins with solar powered charging systems and hardware design for sustainable mobility it then covers power electronics and motor control methods including bldc control and adaptive charging frameworks the final section addresses cutting edge developments like vehicle to grid v2g systems and iot enabled ev automation key features advances in solar ev charging and wireless power transfer control strategies for ev motors and battery charging integration of iot and autonomous systems in evs hardware designs for electric bicycles and solar charging stations v2g systems and adaptive power control

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