



Linear Electric Actuators And Generators

Ion Boldea



Linear Electric Actuators And Generators:

Linear Electric Actuators and Generators I. Boldea, Syed A. Nasar, 1997-03-28 Linear electric actuators LEAs and linear electric generators LEGs are widely used electromagnetic devices This book deals with LEAs that convert electric energy into controlled mechanical motion of limited travel and LEGs that transform mechanical energy into electric energy Examples range from loudspeakers and microphones to magnetically levitated material transfer in ultraclean rooms Much of the literature on linear actuators and generators covers the principles of operation and performance calculations of these devices Little has been published on their control or on detailed design methodologies This book presents the first unified treatment of the subject including the construction operation control and design of LEAs and LEGs Chapters describe linear induction permanent magnet linear reluctance switched reluctance and linear stepper actuators as well as various types of linear electric generators The text is amply illustrated with numerous design examples

Variable Speed Generators Ion Boldea, 2015-09-03 Variable Speed Generators the second of two volumes in the Electric Generators Handbook provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world The book delves into the steady state transients control and design of claw pole rotor synchronous induction permanent magnet PM assisted synchronous and switched reluctance starter alternators for electric hybrid vehicles It discusses PM synchronous transverse flux PM and flux reversal PM generators for low speed wind and hydro energy conversion It also explores linear motion alternators for residential and spacecraft applications Numerous design and control examples illustrate the exposition Fully revised and updated to reflect the last decade s worth of progress in the field this Second Edition adds new sections that Address the ride through control of doubly fed induction generators under unbalanced voltage sags Consider the control of stand alone doubly fed induction generators under unbalanced nonlinear loads Detail a stand alone squirrel cage induction generator SCIG with AC output and a low rating pulse width modulated PWM converter Present a twin stator winding SCIG with 50 percent rating inverter and diode rectifier and a dual stator winding induction generator with nested cage rotor Examine interior permanent magnet claw pole alternator systems for more vehicle braking energy recuperation and high power factor Vernier PM generators Depict a PM assisted reluctance synchronous motor generator for an electric hybrid vehicle and a double stator switched reluctance generator with segmented rotor Describe the grid to stand alone transition motion sensorless dual inverter control of permanent magnet synchronous generators with asymmetrical grid voltage sags and harmonics filtering The promise of renewable sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources Variable Speed Generators Second Edition supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow s complex energy needs

Synchronous Generators Ion Boldea, 2015-09-03 Synchronous Generators the first of two volumes in the Electric Generators Handbook offers a thorough introduction to electrical energy and electricity

generation including the basic principles of electric generators The book devotes a chapter to the most representative prime mover models for transients used in active control of various generators Then individual chapters explore large and medium power synchronous generator topologies steady state modeling transients control design and testing Numerous case studies worked out examples sample results and illustrations highlight the concepts Fully revised and updated to reflect the last decade s worth of progress in the field this Second Edition adds new sections that Discuss high power wind generators with fewer or no permanent magnets PMs Cover PM assisted DC excited salient pole synchronous generators Present multiphase synchronous machine inductances via the winding function method Consider the control of autonomous synchronous generators Examine additional optimization design issues Illustrate the optimal design of a large wind generator by the Hooke Jeeves method Detail the magnetic equivalent circuit population based optimal design of synchronous generators Address online identification of synchronous generator parameters Explain the small signal injection online technique Explore line switching on or off parameter identification for isolated grids Describe synthetic back to back load testing with inverter supply The promise of renewable sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources Synchronous Generators Second Edition supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow s complex energy needs

Linear Electric Machines, Drives, and MAGLEVs Handbook Ion Boldea, 2023-07-31 Linear motion is richly present in various industries from direct electric propulsion in urban and interurban people movers on wheels or on magnetic cushions MAGLEVs to indoor transport of goods conveyors etc through plunger solenoids to open hotel doors and as electromagnetic power switches to compressor drives by linear oscillatory permanent magnet PM motors smart phones integrated microphone and loudspeakers and controlled vehicles suspension etc Besides the traditional rotary motor drives with mechanical transmissions which mean friction limitations weather dependent in traction heavy vehicles more losses positioning errors backlash in the process and higher maintenance costs to handle them linear motion in industry by direct electromagnetic forces is free of friction limitations for traction free of mechanical transmission and thus more efficient with less maintenance cost and fewer positioning errors backlash This explains why they are used in so many applications already since the dramatic advancement of power electronics and digital control in the last four decades Modeling performance design control and testing of linear electric machines LEMs show notable differences with respect to rotary electric motor drives which warrant a dedicated treatment of these aspects The Second Edition First Edition 2013 concentrates on the above technical aspects of various types of LEMs in close relationship with specific applications via numerical examples of modeling design control and testing with ample representative results from literature industry and some of the author s contributions such as Technical field and circuit modeling of linear induction motors in flat configurations for low and high speeds with and without dynamic end effects and in tubular configurations short travel design control and testing Linear

synchronous motor LSM drives in dc excited homopolar reluctance and superconducting excitation configurations for urban and interurban high speed vehicles propulsion and integrated propulsion and levitation in MAGLEVs modeling design and control with full scale numerical examples with emphasis on lower KWh passenger Km at high speeds Flat and tubular linear permanent magnet PM synchronous motors L PMSMs mainly destined to industrial indoor transport for automation at high efficiency in clean rooms Linear flux modulation motors new breed suitable for very low speed applications due to higher thrust density Plunger solenoids in various applications including new valve PM actuators with millisecond response time Linear resonant PM oscillatory motors design control and testing mainly destined to compressors for higher efficiency in compact drives Attraction and repulsive force suspension levitation systems for MAGLEVs Active and passive guideway MAGLEVs in urban and superhigh speed interurban transport at lower Kwh per passenger km in lighter vehicles without wheels The numerous numerical design and control examples with practical specifications throughout the 23 chapters of the book allow the reader deep and fast access to a practical but thorough unitary good for comparisons methodology in designing and controlling LEMs for various applications

Electric Generators Handbook - Two Volume Set Ion

Boldea,2018-10-08 Electric Generators Handbook Second Edition Two Volume Set supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow s complex energy needs The first volume Synchronous Generators explores large and medium power synchronous generator topologies steady state modeling transients control design and testing Numerous case studies worked out examples sample results and illustrations highlight the concepts Fully revised and updated to reflect the last decade s worth of progress in the field the Second Edition adds coverage of high power wind generators with fewer or no PMs PM assisted DC excited salient pole synchronous generators autonomous synchronous generators control line switching parameter identification for isolated grids synthetic back to back load testing with inverter supply and more The second volume Variable Speed Generators provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world Numerous design and control examples illustrate the exposition Fully revised and updated to reflect the last decade s worth of progress in the field the Second Edition adds material on doubly fed induction generator control under unbalanced voltage sags and nonlinear loads interior permanent magnet claw pole alternator systems high power factor Vernier PM generators PM assisted reluctance synchronous motors generators for electric hybrid vehicles and more

Electric Machines Ion

Boldea,Lucian Nicolae Tutelea,2009-11-24 Ubiquitous in daily life electric motors generators are used in a wide variety of applications from home appliances to internal combustion engines to hybrid electric cars They produce electric energy in all electric power plants as generators and motion control that is necessary in all industries to increase productivity save energy and reduce pollution With its comprehensive coverage of the state of the art Electric Machines Steady State Transients and Design with MATLAB addresses the modeling design testing and manufacture of electric machines to generate electricity or

in constant or variable speed motors for motion control Organized into three stand alone sections Steady State Transients and FEM Analysis and Optimal Design the text provides complete treatment of electric machines It also Explores international units Contains solved and proposed numerical examples throughout Guides students from simple to more complex math models Offers a wealth of problems with hints The book contains numerous computer simulation programs in MATLAB and Simulink available on an accompanying downloadable resources to help readers make a quantitative assessment of various parameters and performance indices of electric machines Skillfully unifying symbols throughout the book the authors present a great deal of invaluable practical laboratory work that has been classroom tested in progressively modified forms This textbook presents expressions of parameters modeling and characteristics that are directly and readily applicable for industrial R D in fields associated with electric machines industry for modern distributed power systems and industrial motion control via power electronics

Distributed Generation Loi Lei Lai,Tze Fun Chan,2008-03-11 Distributed power generation is a technology that could help to enable efficient renewable energy production both in the developed and developing world It includes all use of small electric power generators whether located on the utility system at the site of a utility customer or at an isolated site not connected to the power grid Induction generator IG is the most commonly used and cheapest technology compatible with renewable energy resources Permanent magnet PM generators have traditionally been avoided due to high fabrication costs however compared with IGs they are more reliable and productive Distributed Generation thoroughly examines the principles possibilities and limitations of creating energy with both IGs and PM generators It takes an electrical engineering approach in the analysis and testing of these generators and includes diagrams and extensive case study examples to better demonstrate how the integration of energy sources can be accomplished The book also provides the practical tools needed to model and implement new techniques for generating energy through isolated or grid connected systems Besides a chapter introducing the technical economic and environmental impacts of distributed generation this book includes an examination of various phase balancing schemes for a three phase IG operating on a single phase power system a coupled circuit 2 D finite element analysis of a grid connected IG with Steinmetz connection a study of self excited induction generator SEIG schemes for autonomous power systems and the voltage and frequency control of SEIG with a slip ring machine SESRIG a report on a PM synchronous generator with inset rotor for achieving a reduced voltage regulation when supplying an autonomous power system and an analysis of its performance using a two axis model and finite element method experimental work on various IG and SEIG schemes This book is a must read for engineers consultants regulators and environmentalists involved in energy production and delivery helping them to evaluate renewable energy sources and to integrate these into an efficient energy delivery system It is also a superior reference for undergraduates and postgraduates Designers operators and planners will appreciate its unique contribution to the literature in this field

Evaluation of Ocean-Energy Conversion Based on Linear Generator Concepts Michael A. Stelzer,2012-07-03

EVALUATION OF OCEAN ENERGY CONVERSION BASED ON LINEAR GENERATOR CONCEPTS As the world continues to demand greater productivity and lifestyle enrichment through technological advancements the demand for electrical power is predicted to escalate dramatically Thus far this increased demand has been primarily supplied from fossil fueled plants Unfortunately the burning of fossil fuels produce harmful carbon dioxide pollution as a by product It has been hypothesized that unless a clean renewable and efficient alternate source of energy is found soon the world may either exhaust its supplies of energy producing materials or drastically degrade its environment However motions that occur naturally such as ocean waves can play a significant role in generating environmentally safe and economically viable energy for human utilization The focus of this work predicts the electrical power generation capabilities from a seabed mounted linear generator tethered to a floating buoy heaving under the influence of passing ocean surface waves Mathematical models are introduced which simulate the oceans surface conditions under both the regular basic and irregular natural wave regimes the heave vertical displacement response for a floating buoy and the resulting electrical output parameters of the linear generator Within these models various physical and electrical parameters are altered in an attempt to generate a greater output power for a given sea state condition making the Wave Energy Converter WEC more efficient It is shown theoretically that the buoy can be designed to have a greater heave response than that of the height of a passing wave resulting in an increase in generated power from the linear generator Author Information Dr Michael A Stelzer is a Certified Project Manager and Senior Electronic Technician with a Ph D in Electrical and Computer Engineering During his career to date Mr Stelzer has published four additional educational titles and has been admitted into Cambridge Who s Who top 101 industry experts

Linear Motion Electromagnetic Devices I. Boldea,S. A. Nasar,1997 Linear electric motors LEMS produce directly linear progressive or oscillatory linear motion through electromagnetic forces LEMS enjoy small but very dynamic worldwide markets in various applications such as urban and airport people movers loudspeakers relays door lock openers magnetic bearings vibrators refrigerator compressors and small vacuum or liquid pumps This book discusses linear induction motors linear permanent magnetic synchronous motors linear permanent magnet pulse motors linear plunger solenoids with fast response and linear oscillomotors A disk containing Mathcad codes for the examples is included

Advanced Linear Machines and Drive Systems Wei Xu,Md. Rabiul Islam,Marcello Pucci,2019-09-07 This book collects the latest theoretical and technological concepts in the design and control of various linear machines and drive systems Discussing advances in the new linear machine topologies integrated modeling multi objective optimization techniques and high performance control strategies it focuses on emerging applications of linear machines in transportation and energy systems The book presents both theoretical and practical experimental results providing a consistent compilation of fundamental theories a compendium of current research and development activities as well as new directions to overcome critical limitations

Electric Drives Ion Boldea,Syed A. Nasar,2016-09-15 Electric Drives provides a practical understanding of the subtleties involved in the

operation of modern electric drives The Third Edition of this bestselling textbook has been fully updated and greatly expanded to incorporate the latest technologies used to save energy and increase productivity stability and reliability Every phrase equation number and reference in the text has been revisited with the necessary changes made throughout In addition new references to key research and development activities have been included to accurately reflect the current state of the art Nearly 120 new pages covering recent advances such as those made in the sensorless control of A C motor drives have been added as have two new chapters on advanced scalar control and multiphase electric machine drives All solved numerical examples have been retained and the 10 MATLAB Simulink programs remain online Thus Electric Drives Third Edition offers an up to date synthesis of the basic and advanced control of electric drives with ample material for a two semester course at the university level

Electric Power Generation, Transmission, and Distribution Leonard L. Grigsby, 2018-09-03 Featuring contributions from worldwide leaders in the field the carefully crafted Electric Power Generation Transmission and Distribution Third Edition part of the five volume set The Electric Power Engineering Handbook provides convenient access to detailed information on a diverse array of power engineering topics Updates to nearly every chapter keep this book at the forefront of developments in modern power systems reflecting international standards practices and technologies Topics covered include Electric power generation nonconventional methods Electric power generation conventional methods Transmission system Distribution systems Electric power utilization Power quality L L Grigsby a respected and accomplished authority in power engineering and section editors Saifur Rahman Rama Ramakumar George Karady Bill Kersting Andrew Hanson and Mark Halpin present substantially new and revised material giving readers up to date information on core areas These include advanced energy technologies distributed utilities load characterization and modeling and power quality issues such as power system harmonics voltage sags and power quality monitoring With six new and 16 fully revised chapters the book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material New chapters cover Water Transmission Line Reliability Methods High Voltage Direct Current Transmission System Advanced Technology High Temperature Conduction Distribution Short Circuit Protection Linear Electric Motors A volume in the Electric Power Engineering Handbook Third Edition Other volumes in the set K12648 Power Systems Third Edition ISBN 9781439856338 K13917 Power System Stability and Control Third Edition ISBN 9781439883204 K12650 Electric Power Substations Engineering Third Edition ISBN 9781439856383 K12643 Electric Power Transformer Engineering Third Edition ISBN 9781439856291

Manufacturing Beno Benhabib, 2003-07-03 From concept development to final production this comprehensive text thoroughly examines the design prototyping and fabrication of engineering products and emphasizes modern developments in system modeling analysis and automatic control This reference details various management strategies design methodologies traditional production technique

Modelling and Control of Switched Reluctance Machines Rui Araújo, José Camacho, 2020-09-09

Today switched reluctance machines SRMs play an increasingly important role in various sectors due to advantages such as robustness simplicity of construction low cost insensitivity to high temperatures and high fault tolerance They are frequently used in fields such as aeronautics electric and hybrid vehicles and wind power generation This book is a comprehensive resource on the design modeling and control of SRMs with methods that demonstrate their good performance as motors and generators

Electric Drives, Second Edition Ion Boldea, Syed A. Nasar, 2005-08-22 Electric drives are everywhere and with the looming promise of electric vehicles and renewable energy they will become more complex and the demands on their capabilities will continue to increase To keep up with these trends students require hands on knowledge and a keen understanding of the subtleties involved in the operation of modern electric drives The best selling first edition of Electric Drives provided such an understanding and this Second Edition offers the same approach with up to date coverage of all major types of electric drives both constant and variable speed This book provides a self contained treatment of low medium and large power drives illustrated by numerous application examples problems digital simulation results and test results for both steady state and dynamic operation This edition features updated material in every chapter including references new material on AC brush series motors capacitor split inductor motors single phase PMSMs and switched reluctance motors and tooth wound PMSMs all with numerical examples new case studies on AC synchronous and induction motors and a new chapter on control of electric generators The companion CD ROM features the full text class slides for instructors and MATLAB simulations of 10 closed loop drives two of which are new to this edition With a practical hands on approach Electric Drives Second Edition is the ideal textbook to help students design simulate build and test modern electric drives from simple to complex

Electrical Machine Analysis Using Finite Elements Nicola Bianchi, 2017-12-19 From the fan motor in your PC to precision control of aircraft electrical machines of all sizes varieties and levels of complexity permeate our world Some are very simple while others require exacting and application specific design Electrical Machine Analysis Using Finite Elements provides the tools necessary for the analysis and design of any type of electrical machine by integrating mathematical numerical techniques with analytical and design methodologies Building successively from simple to complex analyses this book leads you step by step through the procedures and illustrates their implementation with examples of both traditional and innovative machines Although the examples are of specific devices they demonstrate how the procedures apply to any type of electrical machine introducing a preliminary theory followed by various considerations for the unique circumstance The author presents the mathematical background underlying the analysis but emphasizes application of the techniques common strategies and obtained results He also supplies codes for simple algorithms and reveals analytical methodologies that universally apply to any software program With step by step coverage of the fundamentals and common procedures Electrical Machine Analysis Using Finite Elements offers a superior analytical framework that allows you to adapt to any electrical machine to any software platform and to any specific requirements that

you may encounter *Switched Reluctance Motor Drives* R. Krishnan, 2017-12-19 The switched reluctance machine SRM is the least expensive electrical machine to produce yet one of the most reliable As such research has blossomed during the last decade and the SRM and variable drive systems using SRMs are receiving considerable attention from industry Because they require a power electronic converter and controller to function however successful realization of an SRM variable drive system demands an understanding of the converter and controller subsystems and their integration with the machine Switched Reluctance Motor Drives provides that understanding It presents a unified view of the machine and its drive system from all of its system and subsystem aspects With a careful balance of theory and implementation the author develops the analysis and design of SRMs from first principles introduces a wide variety of power converters available for driving the SRM and systematically presents both low and high performance controllers The book includes an in depth study of acoustic noise and its minimization along with application examples that include comparisons between ac and dc drives and SRM drive The result is the first book that provides a state of the art knowledge of SRMs power converters and their use with both sensor based and sensorless controllers Switched Reluctance Motor Drives enables both students and engineers to learn all aspects of SRM drive systems and appreciate the interdependence of the various subsystems in performance optimization *Basics of Electrical Machines* Prof. D. K. Palwalia, Dr. U. K. Kalla, Dr. R. K. Kumawat, 2025-01-01 **Induction Machines Handbook** Ion Boldea, 2020-11-19 The third edition of Induction Machines Handbook comprises two volumes Induction Machines Handbook Steady State Modeling and Performance and Induction Machines Handbook Transients Control Principles Design and Testing The promise of renewable hydro and wind energy via cage rotor and doubly fed variable speed generators e transport propulsion i home appliances makes this third edition state of the art tool conceived with numerous case studies timely for both Academia and Industry The first volume offers a thorough treatment of steady state modeling and performance of induction machines the most used electric motors generators in rather constant or variable speed drives for even lower energy consumption and higher productivity in basically all industries from home appliances through robotics to e transport and wind energy conversion The second volume presents a practical up to date treatment of intricate issues with induction machine IM required for design and testing both in rather constant and variable speed with power electronics drives It contains ready to use in industrial design and testing knowledge with numerous case studies to facilitate thorough assimilation of new knowledge *IEEE International Electric Machines and Drives Conference Record* , 1997

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