

Linear Electric Machines, Drives, and Maglevs Handbook



ION BOLDEA



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Linear Electric Machines Drives And Maglevs Handbook

Dorel Banabic



Linear Electric Machines Drives And Maglevs Handbook:

Linear Electric Machines, Drives, and MAGLEVs Handbook Ion Boldea, 2017-12-19 Based on author Ion Boldea's 40 years of experience and the latest research Linear Electric Machines Drives and Maglevs Handbook provides a practical and comprehensive resource on the steady improvement in this field The book presents in depth reviews of basic concepts and detailed explorations of complex subjects including classifications and practical topologies with sample results based on an up to date survey of the field Packed with case studies this state of the art handbook covers topics such as modeling steady state and transients as well as control design and testing of linear machines and drives It includes discussion of types and applications from small compressors for refrigerators to MAGLEV transportation of linear electric machines Additional topics include low and high speed linear induction or synchronous motors with and without PMs with progressive or oscillatory linear motion from topologies through modeling design dynamics and control With a breadth and depth of coverage not found in currently available references this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R D and testing of innovative solutions to new industrial challenges in linear electric motion energy automatic control

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Induction Machines Handbook Ion Boldea, 2020-05-19 Induction Machines Handbook Transients Control Principles Design and Testing presents a practical up to date treatment of intricate issues with induction machines IM required for design and testing in both rather constant and variable speed with power electronics drives It contains ready to use industrial design and testing knowledge with numerous case studies to facilitate a thorough assimilation of new knowledge Individual Chapters 1 through 14 discuss in detail the following Three and multiphase IM transients Single phase source IM transients Super high frequency models and behavior of IM Motor specifications and design principles IM design below 100 kW and constant V_1 and f_1 IM design above 100 kW and constant

V1 and f1 IM design principles for variable speed Optimization design Single phase IM design Three phase IM generators Single phase IM generators Linear induction motors Testing of three phase IMs Single phase IM testing Fully revised and amply updated to add the new knowledge of the last decade this third edition includes special sections on Multiphase IM models for transients Doubly fed IMs models for transients Cage rotor synchronized reluctance motors Cage rotor PM synchronous motor Transient operation of self excited induction generator Brushless doubly fed induction motor generators Doubly fed induction generators with D C output Linear induction motor control with end effect Recent trends in IM testing with power electronics Cage PM rotor line start IM testing Linear induction motor LIM testing This up to date book discusses in detail the transients control principles and design and testing of various IMs for line start and variable speed applications in various topologies with numerous case studies It will be of direct assistance to academia and industry in conceiving designing fabricating and testing IMs for the future of various industries from home appliances through robotics e transport and renewable energy conversion 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 **Linear Synchronous Machines** Amal Souissi,Imen Abdennadher,Ahmed Masmoudi,2018-11-17 This book introduces readers to two major sustainable applications of linear synchronous machines wave energy conversion and magnetic levitation train technology To do so it begins with a state of the art review of linear machines covering induction and synchronous topologies and their applications with a particular focus on sustainable applications This is followed by an analysis of the electromagnetic modeling of linear synchronous machines the goal being to investigate their main features especially their force production capabilities **Electric Machines** Ion Boldea,Lucian N. Tutelea,2021-10-07 This Second Edition extensively covers advanced issues subjects in electric machines starting from principles to applications and case studies with ample graphical numerical results This textbook is intended for second and third semester courses covering topics such as modeling of transients control principles electromagnetic and thermal finite element analysis and optimal design dimensioning Notable recent knowledge with strong industrialization potential has been added to this edition such as Orthogonal models of multiphase a c machines Thermal Finite Element Analysis of FEA electric machines FEA based optimal design of a PM motor case study Line start synchronizing premium efficiency PM induction machines Induction machines three and single phase synchronous machines with DC excitation with PM excitation and with magnetically salient rotor and a linear Pm oscillatory motor are all investigated in terms of transients

electromagnetic FEM analysis and control principles Case studies numerical examples and lots of discussion of FEM results for PMSM and IM are included throughout the book The optimal design is treated in detail using Hooke Jeeves and GA algorithms with case comparison studies in dedicated chapters for IM and PMSM Numerous computer simulation programs in MATLAB and Simulink are available online that illustrate performance characteristics present in the chapters and the FEM and optimal design case studies and codes may be used as homework to facilitate a deeper understanding of fundamental issues

The Proceedings of the 11th Frontier Academic Forum of Electrical Engineering (FAFEE2024) Qingxin Yang,Jian Li,2024-12-09 This book contains the original and refereed research papers presented at the 11th Frontier Academic Forum of Electrical Engineering FAFEE 2024 held in Chongqing China Topics covered include Power System and New Energy Motors and Systems Power Electronics and Electrical Drives High Voltage and Discharge Electrical Energy Storage and Application New Electrical Materials Advanced Electromagnetic Technology The papers share the latest findings in the field of electrical engineering making the book a valuable asset for researchers engineers and university students etc

Essentials of Electrical Machines Lakshman Kalyan,2025-02-20 Essentials of Electrical Machines offers a comprehensive exploration of the principles operation and applications of electrical machines tailored for undergraduate students With a focus on clarity and accessibility this book is an indispensable resource for students delving into electrical engineering We cover fundamental concepts such as electromechanical energy conversion magnetic circuits and transformer theory providing a solid foundation for understanding various electrical machines including DC machines synchronous machines and induction machines Through clear explanations illustrative examples and practical applications students gain a deep understanding of electrical machine behavior in real world scenarios Designed to cater to diverse learning styles the book features engaging exercises thought provoking problems and interactive simulations to reinforce concepts and promote active learning Whether pursuing a degree in electrical engineering or related fields readers will find this book to be an invaluable companion in mastering electrical machines With its emphasis on practical relevance and conceptual clarity Essentials of Electrical Machines equips students with the knowledge and skills necessary to tackle challenges in electrical engineering

Handbook of Research on Swarm Intelligence in Engineering Bhattacharyya, Siddhartha,Dutta, Paramartha,2015-04-30 Swarm Intelligence has recently emerged as a next generation methodology belonging to the class of evolutionary computing As a result scientists have been able to explain and understand real life processes and practices that previously remained unexplored The Handbook of Research on Swarm Intelligence in Engineering presents the latest research being conducted on diverse topics in intelligence technologies such as Swarm Intelligence Machine Intelligence Optical Engineering and Signal Processing with the goal of advancing knowledge and applications in this rapidly evolving field The enriched interdisciplinary contents of this book will be a subject of interest to the widest forum of faculties existing research communities and new research aspirants from a multitude of disciplines and trades

The SAGE International

Encyclopedia of Travel and Tourism Linda L. Lowry, 2016-09-01 Taking a global and multidisciplinary approach The SAGE International Encyclopedia of Travel and Tourism brings together a team of international scholars to examine the travel and tourism industry which is expected to grow at an annual rate of four percent for the next decade In more than 500 entries spanning four comprehensive volumes the Encyclopedia examines the business of tourism around the world paying particular attention to the social economic environmental and policy issues at play The book examines global regional national and local issues including transportation infrastructure the environment and business promotion By looking at travel trends and countries large and small the Encyclopedia analyses a wide variety of challenges and opportunities facing the industry In taking a comprehensive and global approach the Encyclopedia approaches the field of travel and tourism through the numerous disciplines it reaches including the traditional tourism administration curriculum within schools of business and management economics public policy as well as social science disciplines such as the anthropology and sociology Key features include More than 500 entries authored and signed by key academics in the field Entries on individual countries that details the health of the tourism industry policy and planning approaches promotion efforts and primary tourism draws Additional entries look at major cities and popular destinations Coverage of travel trends such as culinary tourism wine tourism agritourism ecotourism geotourism slow tourism heritage and cultural based tourism sustainable tourism and recreation based tourism Cross references and further readings A Reader's Guide grouping articles by disciplinary areas and broad themes

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

Energy Efficiency in Motor Systems Peter Radgen, Paolo Bertoldi, 2024-11-06 This book contains selected peer reviewed papers presented at the 12th International Conference on

Energy Efficiency in Motor Systems EEMODS 22 held in Stuttgart Germany from May 3 5 2022 As with previous conferences in this series EEMODS 22 provided a scientific forum to discuss and debate the latest developments and impacts of electrical motor systems on energy and the environment energy efficiency policies and programs adopted and planned standards including ISO 50 001 and the technical and commercial advances made in the dissemination and penetration of energy efficient motor systems Topics covered include emerging motor technologies research and innovation in electric motors power electronics and drives pump systems market surveillance and enforcement mechanisms national energy efficiency standards including case studies plus much more The conference is international by nature and aims to attract high quality and innovative contributions from all corners of the globe while the papers facilitate the development of new technologies policies and strategies to increase energy efficiency

The Proceedings of the 17th Annual Conference of China Electrotechnical Society Kaigui Xie,Jianlin Hu,Qingxin Yang,Jian Li,2023-03-30 This book gathers outstanding papers presented at the 17th Annual Conference of China Electrotechnical Society organized by China Electrotechnical Society CES held in Beijing China from September 17 to 18 2022 It covers topics such as electrical technology power systems electromagnetic emission technology and electrical equipment It introduces the innovative solutions that combine ideas from multiple disciplines The book is very much helpful and useful for the researchers engineers practitioners research students and interested readers

Neural Networks Modeling and Control Jorge D. Rios,Alma Y Alanis,Nancy Arana-Daniel,Carlos Lopez-Franco,2020-01-15 Neural Networks Modelling and Control Applications for Unknown Nonlinear Delayed Systems in Discrete Time focuses on modeling and control of discrete time unknown nonlinear delayed systems under uncertainties based on Artificial Neural Networks First a Recurrent High Order Neural Network RHONN is used to identify discrete time unknown nonlinear delayed systems under uncertainties then a RHONN is used to design neural observers for the same class of systems Therefore both neural models are used to synthesize controllers for trajectory tracking based on two methodologies sliding mode control and Inverse Optimal Neural Control As well as considering the different neural control models and complications that are associated with them this book also analyzes potential applications prototypes and future trends Provide in depth analysis of neural control models and methodologies Presents a comprehensive review of common problems in real life neural network systems Includes an analysis of potential applications prototypes and future trends

History of Romanian Technology and Industry Dorel Banabic,2023-09-21 This volume showcases the valuable achievements of the Romanian technology and industry worldwide It started from the premise that the history of Romanian technique is scarcely known outside the borders of Romania The main Romanian contributions to the world s technological heritage are missing except for a few names in the field of aviation from the great encyclopedias and dictionaries published worldwide This is due among other reasons to the insufficient promotion in widely spoken languages of the history of Romanian technology The multidisciplinary approach of the volumes means that the field of technology had

to be split into several branches The present volume includes the following industries electrical engineering energy technology biomedicine maritime and rail transport automotive industry aviation The history of engineering societies of engineering education of intellectual property and of inventions as well as a synopsis of the personalities of Romanian engineering have been tackled in separate chapters For each field are engaged the collaboration of authors who have already published a history of their field Certain chapters were drafted with the aid of specialists who have played the part of policy makers in the elaboration of development strategies for Romania and who are familiar not only with the facts and the history of their field but also with the philosophy behind its development

Transportation Energy and Dynamics Sunil Kumar Sharma,Ram Krishna Upadhyay,Vikram Kumar,Hardikk Valera,2023-06-13 This book provides a macro level understanding of transportation as an industry through the lens of all the stakeholders that make up the ecosystem It aids understanding about the transportation ecosystem its components challenges contribution to economic growth and the interplay between the stakeholders that govern the system The contents also examine the background and history of transportation emphasizing the fundamental role and importance the industry plays in companies society and the environment in which transportation service is provided The book also provides an overview of carrier operations management technology and the strategic principles for the successful management of different modes of transportation This book is of interest to those working in academia industry and policy in the areas of transportation

Linear Motion Electric Machines S. A. Nasar,I. Boldea,1979
Induction Machines Handbook ION. BOLDEA,2023-05-31 This 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 drives It contains ready to use in industrial design and testing knowledge with numerous case studies to facilitate thorough assimilation of new knowledge

Induction Machines Handbook Ion Boldea,Professor of Electrical Engineering Technical University of Timisoara Romania and Visiting Professor Department of Electrical Engineering I Boldea,2020
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synchronous motor Transient operation of self excited induction generator Brushless doubly fed induction motor generators Doubly fed induction generators with D C output Linear induction motor control with end effect Recent trends in IM testing with power electronics Cage PM rotor line start IM testing Linear induction motor LIM testing This up to date book discusses in detail the transients control principles and design and testing of various IMs for line start and variable speed applications in various topologies with numerous case studies It will be of direct assistance to academia and industry in conceiving designing fabricating and testing IMs for the future of various industries from home appliances through robotics e transport and renewable energy conversion

Linear Synchronous Motors Jacek F. Gieras,Zbigniew J. Piech,Bronislaw Tomczuk,2018-04-20 Considered to be the first book devoted to the subject Linear Synchronous Motors Transportation and Automation Systems Second Edition evaluates the state of the art demonstrating the technological innovations that are improving the design construction and performance of modern control systems This new edition not only illustrates the development of linear synchronous motor drives but it also discusses useful techniques for selecting a motor that will meet the specific requirements of linear electrical drives New Features for the Second Edition Several updated and expanded sections as well as two new chapters on FEM Even more numerical examples calculations and mathematical models Broadened target audience that includes researchers scientists students and more Evaluating trends and practical techniques for achieving optimal system performance the authors showcase ready to implement solutions for common roadblocks in this process The book presents fundamental equations and calculations used to determine and evaluate system operation efficiency and reliability with an exploration of modern computer aided design of linear synchronous motors including the finite element approach It covers topics such as linear sensors and stepping motors magnetic levitation systems elevators and factory automation systems It also features case studies on flat PM tubular PM air cored and hybrid linear synchronous motors as well as 3D finite element method analysis of tubular linear reluctance motors and linear oscillatory actuators With such an exceptional presentation of practical tools and conceptual illustrations this volume is an especially powerful resource It will benefit readers from all walks by providing numerical examples models guidelines and diagrams to help develop a clear understanding of linear synchronous motor operations characteristics and much more

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