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electronics 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 only 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 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 **Electrical Machines** Tacek F. Gieras, 2016-10-14 This book endeavors to break the stereotype that basic electrical machine courses are limited only to transformers DC brush machines induction machines and wound field synchronous machines It is intended to serve as a textbook for basic courses on Electrical Machines covering the fundamentals of the electromechanical energy conversion transformers classical electrical machines i e DC brush machines induction machines wound field rotor synchronous machines and modern electrical machines i e switched reluctance machines SRM and permanent magnet PM brushless

machines In addition to academic research and teaching the author has worked for over 18 years in US high technology corporative businesses providing solutions to problems such as design simulation manufacturing and laboratory testing of large variety of electrical machines for electric traction energy generation marine propulsion and aerospace electric systems

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 **Electric Machines** ION. BOLDEA, Lucian Tutelea, 2024-12 With its comprehensive coverage of the state of the art this second edition of the book introduces the basic types of transformers and electric machines and also discusses advanced subjects in electric machines starting from principles to applications and case studies with ample graphical results The first volume Electric Machines Steady State Performance with MATLAB R covers circuit modeling characteristics and performance characteristics under steady state testing techniques and preliminary electromagnetic thermic dimensioning This book is intended for first semester course treating electric transformers rotary and linear machines steady state modeling and performance computation preliminary dimensioning and testing standardized and innovative techniques The second volume Electric Machines Transients Control Principles Finite Element Analysis and Optimal Design with MATLAB R is intended for second and third semester course treating 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 and FEA based only optimal design of a PM motor case study Both the volumes include numerical examples and case studies and numerous computer simulation programs in MATLAB and Simulink R are also available online that illustrate performance characteristics present in the chapters Modern **Permanent Magnet Electric Machines** Jacek F. Gieras, Jian-Xin Shen, 2022-12-05 The late 1980s saw the beginning of the PM brushless machine era with the invention of high energy density permanent magnets PM and the development of power electronics Although induction motors are now the most popular electric motors the impact of PM brushless machines on electromechanical drives is significant Today PM machines come second to induction machines Replacement of electromagnetic field excitation systems by PMs brings the following benefits No electrical energy is absorbed by the field excitation system and thus there are no excitation losses causing substantial increase in efficiency Higher power density kW

kg and or torque density Nm kg than electromagnetic excitation Better dynamic performance than motors with electromagnetic excitation higher magnetic flux density in the air gap Simplification of construction and maintenance Less expensive for some types of machines Modern Permanent Magnet Electric Machines Theory and Control serves as a textbook for undergraduate power engineering students who want to supplement and expand their knowledge in the fundamentals of magnetism soft magnetic materials permanent magnets PMs calculation of magnetic circuits with PMs modern PM brushed DC machines and their controls modern PM brushless DC motors and drive control and modern PM generators The book can help students learn more about electrical machines and can serve as a prescribed text for teaching elective undergraduate courses such as modern permanent magnet electrical machines Since the book is written in a simple scientific language and without redundant mathematics it can also be used by practicing engineers and managers employed in electrical machinery or electromagnetic device industries International Conference on Reliable Systems Engineering (ICoRSE) - 2022 Daniela Doina Cioboată, 2022-08-25 This book provides both researchers in the academia students and industrial experts the chance to exchange new ideas build relations and find virtual partners It is a scientific event whose proceedings have set a very high standard ICORSE's distinctive feature is represented by its breadth of topics mechatronics integronics and adaptronics reliable systems engineering cyber physical systems optics theoretical and applied mechanics robotics modelling and simulation smart integrated control systems computer imaging processing smart bio medical and bio mechatronic systems MEMS and NEMS new materials sensors and transducers nano chemistry physical chemistry of biological systems micro and nanotechnology system optimization communications renewable energy and environmental engineering They all come together to deliver a clear picture of the state of the art reached in these areas so far BLDC (Brushless Direct Current) Motors Ishwar Singh, 2024-06-09 In today s dynamic and interconnected world technological advancements are shaping the way we live work and interact with our environment Among the myriad innovations driving this transformation BLDC Brushless Direct Current motors stand out as versatile and indispensable components powering a wide range of applications across various industries This book aims to provide a comprehensive and accessible resource for individuals seeking to deepen their understanding of BLDC motors and leverage their capabilities in practical applications Drawing upon years of collective expertise and experience we have endeavored to distill complex concepts into clear explanations making this book suitable for both beginners and seasoned professionals alike Smart Technologies in Urban Engineering Olga Arsenyeva, Tatiana Romanova, Maria Sukhonos, Yevgen Tsegelnyk, 2022-11-29 This book offers a comprehensive review of smart technologies and perspectives on their application in urban engineering It covers a wide range of applications from transport and energy management to digital manufacturing smart city environment and sustainable development providing readers with new ideas for future research and collaborations This book presents select papers from the International Conference on Smart Technologies in Urban Engineering STUE 2022 held to commemorate the 100th anniversary of the O M

Beketov National University of Urban Economy in Kharkiv Ukraine on June 9 11 2022 All the contributions offer plenty of valuable information and would be of great benefit to the experience exchange among scientists in urban engineering

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