



ELECTRIC MACHINES

Advancements In Electric Machines Advancements In Electric Machines

**Dumitru Luca, Lucel Sirghi, Claudiu
Costin**



Advancements In Electric Machines Advancements In Electric Machines:

Advancements in Electric Machines J. F. Gieras, 2008-11-14 Traditionally electrical machines are classified into d c commutator brushed machines induction asynchronous machines and synchronous machines These three types of electrical machines are still regarded in many academic curricula as fundamental types despite that d c brushed machines except small machines have been gradually abandoned and PM brushless machines PMBM and switched reluctance machines SRM have been in mass production and use for at least two decades Recently new topologies of high torque density motors high speed motors integrated motor drives and special motors have been developed Progress in electric machines technology is stimulated by new materials new areas of applications impact of power electronics need for energy saving and new technological challenges The development of electric machines in the next few years will mostly be stimulated by computer hardware residential and public applications and transportation systems land sea and air At many Universities teaching and research strategy oriented towards electrical machinery is not up to date and has not been changed in some countries almost since the end of the WWII In spite of many excellent academic research achievements the academia industry collaboration and technology transfer are underestimated or quite often neglected Underestimation of the role of industry unfamiliarity with new trends and restraint from technology transfer results with time in lack of external financial support and drastic decline in the number of students interested in Power Electrical Engineering

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 Advanced

Electrical Machines Mr. Rohit Manglik, 2024-07-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Shaping the Future of Electric Machines Alexey Matveev, 2025-07-28 Shaping the Future of Electric Machines is aimed at anyone involved with electric machines drives their applications and related systems This includes specialists in companies involved in the development or implementation of equipment as well as students professors inventors and philosophers of technology The content of the book is easy to master and is written in simple language without the use of complex mathematics Despite its accessibility the book provides new knowledge and offers a fresh perspective on electromechanics It enables readers to understand their role in the evolution of electric machines and provides tools for shaping the future The book also includes numerous examples of innovative solutions in the field of electric machines and drives which serve as illustrations of various technical problem solving approaches Enables readers to understand the evolution of electric machines and offers tools for future design and innovation Introduces several new concepts that challenge traditional views Includes examples and illustrations of various technical problem solving approaches

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Electrified Aircraft Propulsion Kiruba Haran, Nateri Madavan, Tim C. O'Connell, 2022-05-26 An ideal introduction to advances and outstanding challenges in large electric aircraft design combining expertise from leading researchers

Electric Machines Dionysios Aliprantis, Oleg Wasynczuk, 2022-08-11 Offering a new perspective this textbook demystifies the operation of electric machines by providing an integrated understanding of electromagnetic fields electric circuits numerical analysis and computer programming It presents fundamental concepts in a rigorous manner emphasising underlying physical modelling assumptions and limitations and provides detailed explanations of how to implement the finite element method to explore these concepts using Python It includes explanations of the conversion of concepts into algorithms and algorithms into code and examples building in complexity from simple linear motion electromagnets to

rotating machines Over 100 theoretical and computational end of chapter exercises test understanding with solutions for instructors and downloadable Python code available online Ideal for graduates and senior undergraduates studying electric machines electric machine design and control and power electronic converters and power systems engineering this textbook is also a solid reference for engineers interested in understanding analysing and designing electric motors generators and transformers

Recent Developments of Electrical Drives Slawomir Wiak, Maria Dems, Krzysztof Komeza, 2007-06-08 Recent Developments of Electrical Drives is composed of the papers which cover a wide spectrum of theory and practice thus they are deeply rooted in engineering problems being simultaneously of high theoretical level This way the contents touches the heart of the matter in electrical drives theory control systems and applications The book stating the recent developments of electrical drives can be useful for engineers and researchers investigating and designing electrical and electronic devices as well as for students and young researchers dealing with electrical and electronic engineering computer sciences advanced computer modelling sophisticated control systems with artificial intelligence tools applied optimal design by use of classical and genetic algorithms employed applied mathematics and all the topics where electromagnetic thermal mechanical phenomena occur Recent Developments of Electrical Drives covers a wide range of interests of industry engineers and scientists involved in modelling control measurements new motor structures design and could be also useful for engineers working in the field of electrical drives implementation

Advancements in Fluid Power Technology: Sustainability, Electrification, and Digitalization Liselott Ericson, Petter Krus, 2025-08-31 This open access book contains contributions from the Global Fluid Power Society GFPS PhD Symposium 2024 It reflects the collaborative efforts of researchers who are dedicated to pushing the boundaries of fluid power research The GFPS PhD symposium established in 2016 as a biannual event is a platform for exchanging ideas and insights related to fluid power technology among young researchers It serves as a focal point for the exploration of various technical topics related to fluid power including components systems and applications Fluid power technology undergoes a rapid transformation towards electrification and digitalization requiring innovation and new technical solutions across the industry in response to societal requirements on different aspects of sustainability The book covers a range of topics that align with the symposium's theme Advancements in Fluid Power Technology Sustainability Electrification and Digitalization The content encompasses a wide spectrum of subjects including fluid power applications control and automation energy efficiency electrification and environmental sustainability The book can be a valuable reference for researchers and professionals interested in fluid power research and allied fields

Electronics Encyclopedia: Unlock the Secrets of Electrical Circuits Pasquale De Marco, Step into the captivating world of electronics and unveil the secrets of electrical circuits semiconductors and renewable energy technologies with Electronics Encyclopedia Unlock the Secrets of Electrical Circuits This comprehensive guide empowers you to understand the fundamental principles of electronics from basic concepts to cutting edge applications Embark on an enlightening journey as

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Fault Detection Wei Zhang, 2010-03-01 In this book a number of innovative fault diagnosis algorithms in recently years are introduced These methods can detect failures of various types of system effectively and with a relatively high significance

Advances in Manufacturing Engineering and Materials II Sergej Hloch, Dagmar Klichová, Frank Pude, Grzegorz M. Krolczyk, Somnath Chattopadhyaya, 2021-03-16 This book reports on cutting edge research and technologies in the field of advanced manufacturing and materials with a special emphasis on unconventional machining process rapid prototyping and biomaterials It gathers contributions to the International Conference on Manufacturing Engineering and Materials ICMEM 2020 which was originally planned in June 2020 but will actually take place in 2021 in Nov Smokovec Slovakia because of the Covid 19 pandemic Despite the challenging times submitted contributions were peer reviewed and upon a careful revision included in this book which covers advances that are expected to increase the industry's competitiveness with regard to sustainable development and preservation of the environment and natural resources

Condition monitoring industrial automation and diverse fabrication processes such as welding casting and molding as well as tribology and bioengineering are just a few of the topics discussed in the book's wealth of authoritative contributions. A special emphasis is given to problems connected to climate change and solution manufacturer and engineers may adopt and develop to prevent and cope with them.

Recent Advances in Technology Research and Education Dumitru

Luca, Lucel Sirghi, Claudiu Costin, 2017-09-08 This book presents selected contributions to the 16th International Conference on Global Research and Education Inter Academia 2017 hosted by Alexandru Ioan Cuza University of Iași Romania from 25 to 28 September 2017. It is the third volume in the series following the editions from 2015 and 2016. Fundamental and applied research in natural sciences have led to crucial developments in the ongoing 4th global industrial revolution in the course of which information technology has become deeply embedded in industrial management research and innovation and just as deeply in education and everyday life. Materials science and nanotechnology plasma and solid state physics photonics electrical and electronic engineering robotics and metrology signal processing e learning intelligent and soft computing have long since been central research priorities for the Inter Academia Community IAC a body comprising 14 universities and research institutes from Japan and Central East European countries that agreed in 2002 to coordinate their research and education programs so as to better address today's challenges. The book is intended for use in academic government and industrial R D departments as a reference tool in research and technology education. The 42 peer reviewed papers were written by more than 119 leading scientists from 14 countries most of them affiliated to the IAC.

Recent Advances in Power Electronics and Drives Shailendra Kumar, Bhim Singh, Arun Kumar Singh, 2022-05-26 This book contains select proceedings of EPREC 2021 with a focus on power electronics and drives. The book includes original research and case studies that present recent developments in power electronics focusing on power inverters and converters. The book also consists of research work on electrical drives regulated power supplies operation of FACTS HVDC etc. The book will be a valuable reference guide for beginners researchers and professionals interested in the advancements of power electronics and drives.

AETA 2018 - Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Ivan

Zelinka, Pavel Brandstetter, Tran Trong Dao, Vo Hoang Duy, Sang Bong Kim, 2019-04-13 These proceedings address a broad range of topic areas including telecommunication power systems digital signal processing robotics control systems renewable energy power electronics soft computing and more. Today's world is based on vitally important technologies that combine e.g. electronics cybernetics computer science telecommunication and physics. However since the advent of these technologies we have been confronted with numerous technological challenges such as finding optimal solutions to various problems regarding controlling technologies signal processing power source design robotics etc. Readers will find papers on these and other topics which share fresh ideas and provide state of the art overviews. They will also benefit practitioners who can easily apply the issues discussed here to solve real life problems in their own work. Accordingly the proceedings offer a

valuable resource for all scientists and engineers pursuing research and applications in the above mentioned fields

Transportation Electrification Ahmed A. Mohamed,Ahmad Arshan Khan,Ahmed T. Elsayed,Mohamed A.

Elshaer,2022-12-28 *Transportation Electrification* Dive deep into the latest breakthroughs in electrified modes of transport In *Transportation Electrification* an accomplished team of researchers and industry experts delivers a unique synthesis of detailed analyses of recent breakthroughs in several modes of electric transportation and a holistic overview of how those advances can or cannot be applied to other modes of transportation The editors include resources that examine electric aircraft rolling stock watercraft and vehicle transportation types and comparatively determine their stages of development distinctive and common barriers to advancement challenges gaps in technology and possible solutions to developmental problems This book offers readers a breadth of foundational knowledge combined with a deep understanding of the issues afflicting each mode of transportation It acts as a roadmap and policy framework for transportation companies to guide the electrification of transportation vessels Readers will benefit from an overview of key standards and regulations in the electrified transportation industry as well as A thorough introduction to the various modes of electric transportation including recent advances in each mode and the technological and policy challenges posed by them An exploration of different vehicle systems including recent advanced in hybrid and EV powertrain architectures and advanced energy management strategies Discussions of electrified aircraft including advanced technologies and architecture optimizations for cargo air vehicle passenger air vehicles and heavy lift vertical take off and landing craft In depth examinations of rolling stock and watercraft type vehicles and special vehicles including various system architectures and energy storage systems relevant to each Perfect for practicing professionals in the electric transport industry *Transportation Electrification* is also a must read resource for standardization body members regulators officials policy makers and undergraduate students in electrical and electronics engineering *Research Developments in Sustainable Aviation* T. Hikmet Karakoc,Siripong

Atipan,Alper Dalkiran,Ali Haydar Ercan,Navatasn Kongsamutr,Vis Sripawadkul,2023-09-29 Sustainable aviation is a long term strategy aimed at providing innovative solutions to the challenges facing the aviation industry The International Symposium on Sustainable Aviation is a multi disciplinary symposium that presents research on current sustainability based issues and future trends in the field of aviation from an economic social and environmental perspective The conference provides a platform offering insights on a broad range of current issues in aviation such as improving aircraft fuel efficiency fostering the use of biofuels minimizing environmental impact mitigating GHG emissions and reducing engine and airframe noise ISSA allows researchers scientists engineers practitioners policymakers and students to exchange information present new technologies and developments and discuss future direction strategies and priorities in aviation and sustainability

Discoveries and Inventions of the Nineteenth Century Robert Routledge,1896

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