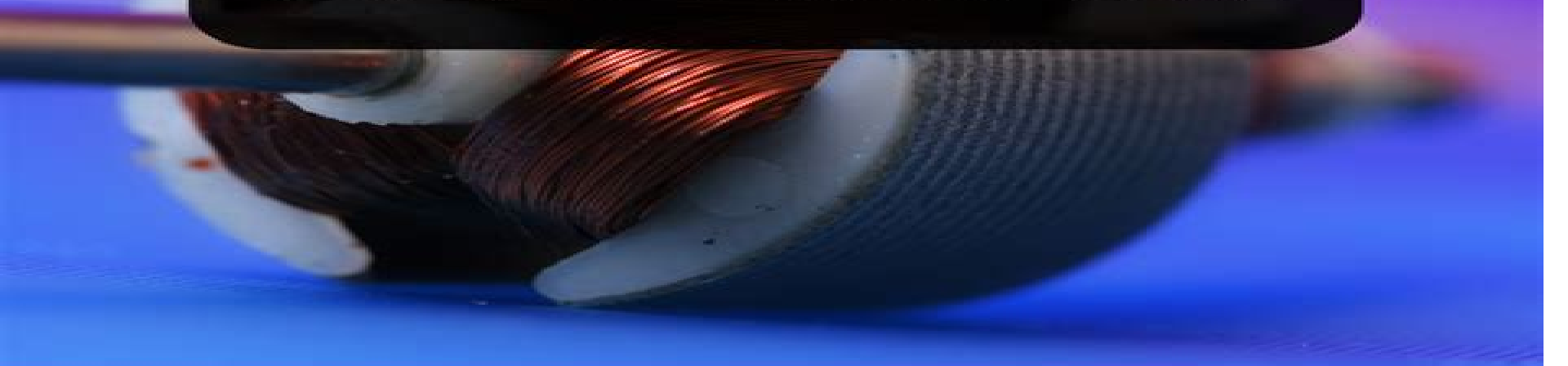




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PERMANENT MAGNET GENERATOR

A close-up photograph of a permanent magnet generator. It features a central shaft with a series of copper wire coils wound around it. The coils are mounted on a white plastic housing. The background is a solid blue color.

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UpWind - Design limits and solutions for very large turbines , **Design of a superconducting DC wind generator** Liu, Yingzhen,2020-11-18 The trend towards larger power ratings of wind turbines asks for innovations in power generation which requires lower weight and cost smaller size higher efficiency and reliability Due to high current carrying capability and no DC losses of superconductors a superconducting wind generator can have a superior power to weight volume ratio with high efficiency The work in the book mainly focuses on the feasibility study and design of a superconducting DC wind generator

Mechanical Design and Manufacturing of Electric Motors Wei Tong,2022-05-19 This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers

Multiphase Hybrid Electric Machines Ahmad S. Al-Adsani,Omid Beik,2021-09-02 This book provides an insight into the design modeling control and application of multiphase hybrid permanent magnet machines for electrified powertrains in electric and hybrid electric vehicles The authors present an overview of electric and hybrid electric vehicles hybrid electric machine topologies hybrid permanent magnet HPM machine design multiphase hybrid machines operation of multiphase generators in series hybrid electric vehicles SHEV and machine hardware build up and testing Readers will gain an understanding of multiphase machine configuration their design control and recent applications along with the benefits they provide and learn general design steps prototyping and hardware build up processes of multiphase electric machines Multiphase Hybrid Electric Machines Applications for Electrified Powertrains will be a valuable reference for undergraduate and graduate students researchers and practicing engineers working on electric hybrid electric vehicles as well as electric machine applications in renewable energy systems specifically wind turbines HVAC systems robotics and aerospace industry

Variable Speed Generators Ion Boldea, 2005-11-09 Surveying the technologies used to satisfy the world's demand for open efficient and clean electricity Variable Speed Generators provides an in depth examination of variable speed generators for both stand alone and grid connected applications Part of The Electric Generators Handbook Two Volume Set this work offers authoritative tightly focused treatment of the topologies steady state and transients modeling performance control design and testing of stand alone and grid connected generators operating at variable speeds Variable Speed Generators thoroughly covers all types of variable speed generators currently in progress in distributed generation and renewable energy applications around the world It delves into the steady state transients control and design of claw pole rotor synchronous induction permanent magnet assisted synchronous and switched reluctance starter alternators for hybrid electric vehicles It also discusses PM synchronous transverse flux PM and flux reversal PM generators for low speed wind and hydro energy conversion as well as linear motion alternators for residential and spacecraft applications Numerous design and control examples illustrate the discussion 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 supplies the tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow's complex energy needs

Autonomous Control of Unmanned Aerial Vehicles Victor Becerra, 2019-06-24 Unmanned aerial vehicles UAVs are being increasingly used in different applications in both military and civilian domains These applications include surveillance reconnaissance remote sensing target acquisition border patrol infrastructure monitoring aerial imaging industrial inspection and emergency medical aid Vehicles that can be considered autonomous must be able to make decisions and react to events without direct intervention by humans Although some UAVs are able to perform increasingly complex autonomous manoeuvres most UAVs are not fully autonomous instead they are mostly operated remotely by humans To make UAVs fully autonomous many technological and algorithmic developments are still required For instance UAVs will need to improve their sensing of obstacles and subsequent avoidance This becomes particularly important as autonomous UAVs start to operate in civilian airspaces that are occupied by other aircraft The aim of this volume is to bring together the work of leading researchers and practitioners in the field of unmanned aerial vehicles with a common interest in their autonomy The contributions that are part of this volume present key challenges associated with the autonomous control of unmanned aerial vehicles and propose solution methodologies to address such challenges analyse the proposed methodologies and evaluate their performance

Applications of Power Electronics Frede Blaabjerg, Tomislav Dragicevic, Pooya Davari, 2019-06-24 Power electronics technology is still an emerging technology and it has found its way into many applications from renewable energy generation i.e. wind power and solar power to electrical vehicles EVs biomedical devices and small appliances such as laptop chargers In the near future electrical energy will be provided and handled by power electronics and consumed through power electronics this not only will intensify the role of power electronics technology in power conversion processes

but also implies that power systems are undergoing a paradigm shift from centralized distribution to distributed generation Today more than 1000 GW of renewable energy generation sources photovoltaic PV and wind have been installed all of which are handled by power electronics technology The main aim of this book is to highlight and address recent breakthroughs in the range of emerging applications in power electronics and in harmonic and electromagnetic interference EMI issues at device and system levels as discussed in robust and reliable power electronics technologies including fault prognosis and diagnosis technique stability of grid connected converters and smart control of power electronics in devices microgrids and at system levels Advanced technologies for planning and operation of prosumer energy systems Bin Zhou,Siqi

Bu,Liansong Xiong,Hugo Morais, Junjie Hu,Jingyang Fang,Jian Zhao,Peng Hou,2023-04-28 *Mechanical Design of Electric Motors* Wei Tong,2014-04-28 Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry as has the design and manufacture of highly efficient reliable cost effective energy saving quiet precisely controlled and long lasting electric motors Suitable for motor designers engineers and manufacturers as well

The Proceedings of the 18th Annual Conference of China Electrotechnical Society Qingxin Yang,Zewen Li,An Luo,2024-03-27 This book gathers outstanding papers presented at the 18th Annual Conference of China Electrotechnical Society organized by China Electrotechnical Society CES held in Nanchang China from September 15 to 17 2023 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

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