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Circuit Inductance Test
Parameters: 100 kHz, 0.25 V. rms,
0.0 A dc Parallel: (1,2 -4,3) Series:
(1-4) tie (2-3) 2. RMS current for
an approximate DT of 40 ° C
without core loss.

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Dual winding, high power density, shielded drum core power inductors. www.eatncmelectronics.com. Product specifications. 1. Open Circuit Inductance Test Parameters: 100 kHz, 0.25 V. rms, 0.0 A dc Parallel: (1,2 -4,3) Series: (1-4) tie (2-3) 2. RMS current for an approximate DT of 40 ° C without core loss. Dual winding, high power density, shielded drum core power ... High power density.

Dual Winding High Power Density Shielded Drum Core Power
The proposed DFPM motor consists of optimal surface-mounted permanent-magnet (PM) rotor and 12-slot stator with two sets of independent three-phase

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concentrated armature windings on alternate teeth, which incorporates the merits of high power density and high efficiency of the PM motor and high fault tolerance of the dual-winding motor.

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windings, one set of RUN winding is energised to have sufficient MMF to meet the reduced mechanical load, thereby the flux density in stator core

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High power density. Usable power

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might be questioned at this stage. nHPD2 is after all smaller than the mid-sized IHM footprint at a compact 94mm x. 140mm. However, this is not at the expense of a reduction in usable power. nHPD2 is a high power density dual.

High Power Density Dual nHPD2 Packaging Generation ...

Index Terms—Dual-winding motor, design and optimization, fault-tolerance, finite element analysis, short-circuit fault. I.

INTRODUCTION PERMANENT magnet (PM) motor has been widely used in hybrid electric vehicles, aerospace and other fields because of the merits such as high power density, high torque density,

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In this paper, a new electric drive system based on a six-phase ten-pole dual-winding fault-tolerant

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permanent-magnet (DFPM) motor for aerospace applications is proposed and investigated. The proposed DFPM motor consists of optimal surface-mounted permanent-magnet (PM) rotor and 12-slot stator with two sets of independent three-phase concentrated armature windings on alternate teeth, which incorporates the merits of high power density and high efficiency of the PM motor and high fault ...

Electric Drive System of Dual-Winding Fault-Tolerant ...

The DRAQ offers a unique dual/coupled winding construction offering single (series) or dual (parallel) inductors modes. The DRAQ product line offers exceptional design flexibility for

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DRAQ Automotive inductor | Dual/coupled winding ...

Compared to round wires efficiency is improved in wide parts of the operating area. The absence of the cooling jacket leads to comparable production costs but an even more compact machine design. Technological aspects are discussed and a particular high-power-density interior permanent

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magnet synchronous machine (IPMSM) with water jacket cooling and round wires is compared to a flat wire wound, slot cooled motor by the use of FEM and CFD simulations and measurements on single tooth specimen.

Indirect slot cooling for high-power-density machines with ...
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TT electronics BI Technologies has extended its HM78D family of dual winding inductors with the introduction of a new model series offering higher inductance, better efficiency and superior current handling in a rugged, low cost part. The new HM78D-1210 series comes in 12.5 mm footprint shielded SMD packages and, in common with other HM78D models, can be configured as inductors, common mode ...

New dual winding inductors focus on high current applications
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Keywords: dual, winding, high,
power, density, shielded, drum,
core, power Created Date:

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This book comprises select
proceedings of the International
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2020). The papers presented in this book are peer-reviewed and cover latest research in electrical, electronics, communication and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geo informative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broad band communication, mobile and optical communication, network security,

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VLSI, embedded systems, optical networks and wireless communication. The volume can be useful for students and researchers working in the different overlapping areas of electrical, electronics and communication engineering.

"AC Machine Systems" stresses both analysis methods and operating performances of AC machine systems, including variable speed drive system of AC machines with power electronics and control devices, power energy system composed of AC machines and power lines, special machine system with special machines and special loads, electric machine system consisting of AC machines and excitation devices. Based on a

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single coil, the Multi-Loop Theory is thoroughly described, and examples of how to use the new approach are presented. This book provides a new way for analyzing the AC machine systems. This book is designed for the researchers and postgraduates in the field of electric machines and control. It's also a reference book for related technicians. This book is written in memory of Professor Jingde Gao, past-president of Tsinghua University, Member of Chinese Academy of Sciences. Another two authors, Linzheng Zhang and Xiangheng Wang both are Professors in Electrical Engineering Dept. of Tsinghua University.

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The 6th International Asia Conference on Industrial Engineering and Management Innovation is sponsored by the Chinese Industrial Engineering Institution and organized by Tianjin University. The conference aims to share and disseminate information on the most recent and relevant researches, theories and practices in industrial and system engineering to promote their development and application in university and enterprises.

The search for clean, renewable energy sources has yielded enormous growth and new developments in these technologies in a few short years, driving down costs and

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encouraging utilities in many nations, both developed and developing, to add and expand wind and solar power capacity. The first, best-selling edition of *Wind and Solar Power Systems* prov

This thesis investigates the key characteristics of magnetless doubly salient machines, evaluates their design philosophies, and proposes new topologies for various applications. It discusses the background of and previous research on magnetless machines, while also outlining upcoming trends and potential future developments. The thesis begins by presenting various torque-improving structures – namely the multi-tooth structure, the double-

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rotor (DR) structure, the axial-field (AF) structure, and the flux-reversal (FR) structure – for magnetless machines. It

subsequently addresses the idea of merging the design philosophies of two different machines to form new dual-mode machines. Thanks to a reconfigured winding arrangement and controllable DC-field excitation, the proposed machines can further extend their operating range to meet the extreme demands of applications in electric vehicles and wind power generation. Lastly, the thesis employs the finite element method (FEM) to thoroughly analyze the proposed machines' key performance parameters and develops experimental setups to verify the proposed concepts.

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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,

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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.

Unmanned aerial vehicles (UAVs)

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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

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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.

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This book is a printed edition of the Special Issue "Emerging Technologies for Electric and Hybrid Vehicles" that was published in *energies*

A timely comprehensive reference consolidates the research and development of electric vehicle machines and drives for electric and hybrid propulsions • Focuses on electric vehicle machines and drives • Covers the major technologies in the area including fundamental concepts and applications • Emphasis the design criteria, performance analyses and application examples or potentials of various motor drives and machine systems • Accompanying website includes

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the simulation models and
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