

1. Record Nr.	UNINA9910460383003321
Titolo	Special issue on electromagnetic fields in electrical engineering // guest editor, Professor Slawomir Wiak
Pubbl/distr/stampa	[Bradford, West Yorkshire, England] : , : Emerald, , [2015] ©2015
ISBN	1-78441-802-1
Descrizione fisica	1 online resource (208 p.)
Collana	COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, , 0332-1649 ; ; Volume 34 Number 2
Disciplina	530.141
Soggetti	Electromagnetic fields Electromagnetism Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; Editorial advisory board; A new analytical approach to determine slotting based eddy current losses in permanent magnets of PMSM taking into account axial and circumferential segmentation; Inductance calculation of high-speed slotless permanent magnet machines; Magnetic-gear motors with high transmission torque density; Simplified human phantoms for narrowband and ultra-wideband body area network modelling; Optimization of the synchronous motor with hybrid permanent magnet excitation system; Analysis of the stator topology impact on cogging torque for surface permanent magnet motor Combined FE and Particle Swarm algorithm for optimization of high speed PM synchronous machine Electromagnetic and thermal parameter identification method for best prediction of temperature distribution on transformer tank covers; Decomposition of the compromise objective function in the permanent magnet synchronous motor optimization; Shielding from external magnetic fields by rotating magnetic conducting cylindrical shells; Comparison of magnetic coupling structures for IPT systems; Influence of the closing rotor slots on the additional losses in the induction motor

Local overheating of transformers with high currents  
Design of permanent magnet synchronous motors including thermal aspects;  
Thermal analysis and efficiency of an induction motor driven by a fault-tolerant multilevel inverter using FEM; Electromagnetic fields in body by wireless inductive system; Analysis of FE

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Sommario/riassunto

The International Symposium on Electromagnetic Fields in Mechatronics, Electrical and Electronic Engineering (ISEF 2013) was held from 12-14 September 2013, in Ohrid, Republic of Macedonia. Now in its 16th edition, the conference topics covered a wide spectrum of electromagnetic field problems and provided a unique opportunity, for scientists, researchers and engineers from all around the world, to discuss the state-of-the-art and new developments in computation, modelling, simulation, measurements and application of electromagnetic fields. A particular emphasis was on the problems related to B

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