
Session Title	[PC-A4] Optimization and Design 7
Date and Time	June 21 (Wednesday) / 14:10-16:00
Place	Rm. 101 (1F)
Session Chair	Sang-Yong Jung (Sungkyunkwan Univ., Korea)

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Digest ID: 58

A Comparative Study on a New Coil Design with Traditional Figure-of Eight Coil for Transcranial Magnetic Stimulation

Li, Yanan; Fahimi, Babak
University of Texas at Dallas, United States of America

PC-A4-2

Digest ID: 541

Robust Optimization of the Shape of Permanent Magnets in a Synchronous Machine Considering Stochastic Quantities

Bontinck, Zeger (1,2); Lass, Oliver (3); Schöps, Sebastian (1,2); De Gersem, Herbert (2); Ulbrich, Stefan (3)
1: Graduate School of Computational Engineering, Technische Universität Darmstadt, Germany; 2: Institut für Theorie Elektromagnetischer Felder, Technische Universität Darmstadt, Germany; 3: Chair of Nonlinear Optimization, Department of Mathematics, Techn

PC-A4-3

Digest ID: 255

Optimization of Multi-objective Electromagnetic Device Based On Improved Artificial Searching Swarm Algorithm

Chen, Tanggong
Hebei University of Technology, China, People's Republic of

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Digest ID: 246

Design Optimization of the Interior Permanent Magnet Motor for Torque Ripple Minimization using Hybrid Analysis Model

Lim, Sunghoon (1); Song, Won Seok (2); Min, Seungjae (2); Izui, Kazuhiro (1); Nishiwaki, Shinji (1)
1: Department of Mechanical Engineering and Science, Kyoto University, Kyoto, Japan; 2: Department of Automotive Engineering, Hanyang University, Seoul, Korea

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Digest ID: 557

Study and Design of Resonant Charging System for High Voltage Transmission Line Monitoring Equipment

Cai, Changsong; Wang, Junhua; Hu, Meilin; Lin, Zhongzheng
Wuhan University, China, People's Republic of

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Digest ID: 570

Shape Optimization of Devices Taking into Account Production Tolerances

Panek, David; Hamar, Roman; Dolezel, Ivo
University of West Bohemia, Czech Republic

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Digest ID: 717

Experimental evaluation of Magnetic Skin effect in silicon-iron core for a High Speed Electrical Machines

Maia, Thales Alexandre Carvalho; Cardoso Filho, Braz de Jesus; Baratta, Igor Almeida
UFMG, Brazil

PC-A4-8

Digest ID: 794

Methodology for Topology Optimization of a Permanent Magnet Synchronous Motor under Line Start Conditions

Jędryczka, Cezary (1); Knypiński, Łukasz (1); Demenko, Andrzej (1); Sykulski, Jan (2)
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Digest ID: 618

Multiobjective Pareto Optimization of Electromagnetic Devices Exploiting Hybrid Kriging

Xiao, Song (1); Liu, Guoqing (1); Zhang, Kunlun (1); Jing, YongZhi (1); Duan, Jiaheng (1); Di Barba, Paolo (2); Sykulski, Jan K (3)
1: Key Laboratory of Magnetic Suspension Technology and Maglev Vehicle Ministry of Education, School of Electrical Engineering, Southwest Jiaotong University, Chengdu, China, People's Republic of; 2: University of Pavia, Italy; 3: University of Southamp

PC-A4-10

Digest ID: 581

Characteristic Comparison of Various SynRMs according to the Geometric Structure by Experimental Verification

Shin, SangMan; Lee, YunHee; Lee, JungHo; Kim, YoungHyun
University of Hanbat National, Korea, Republic of (South Korea)

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Digest ID: 585

Multi-Objective Optimization of Yagi-Uda Antenna Applying Enhanced Firefly Algorithm with Adaptive Cost-Function

Baumgartner, Paul (1); Bauernfeind, Thomas (1); Bíró, Oszkár (1); Hackl, Andreas (2); Magele, Christian (1); Renhart, Werner (1); Torchio, Riccardo (3)
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Digest ID: 587

A Study on the Optimizing design method of SynRM Rib thickness for High Torque and Efficiency

Lee, Jae-Kwang (1); Lee, Ki-Doek (2)
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Digest ID: 592

Integrated Optimal BLAC Motor Design Process for Electric Booster Brake System

HWANG, KYU YUN; KWON, BYUNG IL
Hanyang University, Korea, Republic of (South Korea)

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Digest ID: 599

Design of a Double Paths Magnetic Circuit Structure for High Force Density Hybrid Fuel Injector

Liu, Huai cong (1); Kim, Sol (2); Lee, Ho Joon (3)
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Institute of Science and Technology.,Korea, Republic of (South Korea)

PC-A4-15

Digest ID: 613

Loss Reduction of Vehicle Horn Employing Rolled Silicon Steel Sheets

Sim, Jae-Han; Jung, Kyung-Tae; Hwang, Sung-Woo; Hong, Jung-Pyo
Hanyang University, Korea, Republic of (South Korea)