

Session Title	[PA-M2] Optimization and Design 1
Date and Time	June 19 (Monday) / 11:00-12:50
Place	Rm. 102 (1F)
Session Chair	Zhuoxiang Ren (Université Pierre et Marie CURIE, France)

PA-M2-1

Digest ID: 3

Electromagnetic Wave Travel Time in Biological Tissue for Imaging

Yang, Dan; Xu, Bin; Wang, Xu; Luan, Feng; Zhang, Dianhai
northeastern university, China, People's Republic of

PA-M2-2

Digest ID: 74

Design Optimization of A Novel Scale-Down Hybrid-Excited Dual-PM Generator for Direct-Drive Wind Power Application

Wang, Qingsong (1); Niu, Shuangxia (1); Yang, Lin (2)
1: The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); 2: State Power Economic Research Institute, Beijing, China

PA-M2-3

Digest ID: 88

Electromagnetic Field Characteristic Analysis of Interior Permanent Magnet Motor considering Operating Conditions

Lee, Do-Jae; Park, Yu-Seop
Koeur National University of Transportation, Korea, Republic of (South Korea)

PA-M2-4

Digest ID: 95

Influence of Die Cast Rotor Fill Factor on the Starting Performance of Induction Machines

Yun, Jangho (1,2); Lee, Sungho (2); Jeong, Myung (1); Lee, Sang Bin (1)
1: Korea University, Korea, Republic of (South Korea); 2: Hyundai Heavy Industries, Korea, Republic of (South Korea)

PA-M2-5

Digest ID: 107

Analysis of Magneto-Mechanical Jiles-Atherton-Sablik Model Regarding its Sensitivity to Non-linear Algorithm Parametrization

Mailhé, Benjamin Joseph; Bernard, Laurent; Sadowski, Nelson; Batistela, Nelson Jhoe; Bastos, João Pedro Assumpção
GRUCAD - Universidade Federal de Santa Catarina, Brazil

PA-M2-6

Digest ID: 120

Distribution characteristic and combined optimization of maximum cogging torque of surface mounted few slots permanent-magnet machines

Jin, Ping (1); Guo, Yujing (1); Fang, Shuhua (2); Lin, Heyun (2); Yang, Hui (2)
1: Hohai University, China, People's Republic of; 2: Southeast University, China, People's Republic of

PA-M2-7

Digest ID: 134

The Design of Iron Loss Minimization of 600W IPMSM by Quasi-Newton Method

Baek, Sung-Min (1); Cho, Gyu-Won (2); Kim, Yong-Tae (2); Kim, Gyu-Tak (1)

1: Changwon National University, Korea, Republic of (South Korea); 2: S&T Motiv, Motor R&D Center, Korea, Republic of (South Korea)

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Digest ID: 145

HEV Motor Comparison of IPMSM with Sintered Rare-Earth Magnet and PMASynRM with Bonded Dy Free Magnet in the Same Size

Hwang, Yo Han (1,2); Park, Jung Woo (2); Kim, Tae Hwang (2); Shin, Duck Woong (2); Lee, Ju (1)

1: Hanyang University, Korea, Republic of (South Korea); 2: Hyundai Wia, Korea, Republic of (South Korea)

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Digest ID: 156

A Wind Driven Optimization Algorithm for Global Optimization of Electromagnetic Devices

Ho, S. L. (1); Yang, Shiyong (2)

1: The Hong Kong Polytechnic University, Hong Kong; 2: Zhejiang University, China, People's Republic of

PA-M2-10

Digest ID: 160

Multi-Objective Synthesis of NFC-Transponder Systems based on PEEC Method

Bauernfeind, Thomas (1); Baumgartner, Paul (1); Biro, Oszkar (1); Hackl, Andreas (2); Magele, Christian (1); Renhart, Werner (1); Torchio, Riccardo (3)

1: Institute of Fundamentals and Theory in Electrical Engineering, Graz University of Technology, Austria; 2: Institute of Automotive Engineering, Graz University of Technology, Austria; 3: Dipartimento di Ingegneria Industriale, Università degli Studi di

PA-M2-11

Digest ID: 166

Design of Surface-Mounted Permanent Magnet Vernier Machines Considering Harmonic Characteristics of Winding MMF

Jang, Daekyu; Chang, Junghwan

Dona-A University, Korea, Republic of (South Korea)

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Digest ID: 172

Fast Calculation of Copper Losses in Flush-Butt Welding Transformer

Sakhno, Liudmila (1); Sakhno, Olga (2); Zaryvaev, Roman (3)

1: Peter the Great St. Petersburg Polytechnic University, Russian Federation; 2: Peter the Great St. Petersburg Polytechnic University, Russian Federation; 3: Pskov Electrovar – a producer of high power welding machines, Pskov, Russian Federation

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Digest ID: 155

Tunable Waveguide Filter Design using Topology optimization based on the ON/OFF method

Shin, Hyundo (1); Yoo, Jeonghoon (2)

1: Graduate School of Mechanical Engineering, Yonsei University; 2: School of Mechanical Engineering, Yonsei University

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Digest ID: 364

Study on Surface Charge Distribution Characteristics on surface of Dielectric under Negative Corona in Sphere-plane Gaps

Du, Zhiye; Huang, Congpeng; Lian, Qixiang; Ruan, Jiangjun; Yuan, Jiaxin
Wuhan University, China, People's Republic of