
Session Title [PD-M4] Multi-physics and Coupled Problems 2
Date and Time June 22 (Thursday) / 11:00-12:50
Place Rm. 104 (1F)
Session Chair Se-Hee Lee (Kyungpook Nat'l Univ., Korea)

PD-M4-1 **Digest ID: 64**

Simulation of Bipolar Charge Transport in Polymer Under a DC Electric Field Based on Discontinuous Galerkin Methods

Zhuang, Chijie (1); Zheng, Yuesheng (2); Zeng, Rong (1); He, Jinliang (1)
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PD-M4-2 **Digest ID: 388**

Electromagnetic and Structural Coupling Analysis of Hybrid Driven PM Multi-DOF Motor

LI, Zheng; ZHI, Ruodong
 Hebei University of Science and Technology, China, People's Republic of

PD-M4-3 **Digest ID: 45**

FEM modeling of five-phase magnetoelectric composites for energy transducers

Talleb, Hakeim; Ren, Zhuoxiang
 L2E-UPMC, France

PD-M4-4 **Withdrawn**

PD-M4-5 **Digest ID: 430**

Electromagnetic-Thermal-Fluidic Analysis of Permanent Magnet Synchronous Machine by Bi-directional Method

Jiang, Yapeng; Wang, Dong; Chen, Junquan; Zhang, Qinghu
 Naval University of Engineering, China, People's Republic of

PD-M4-6 **Digest ID: 460**

A Study on Analytical Methods of FEM-based Edge Heating System

Jeong, Geochul (1); Cho, Suyeon (2); Yang, Youngmin (3); Choe, Gilyong (4); Bae, Jae-Nam (5)
 1: Hanyang University, Korea, Republic of (South Korea); 2: Korea Automotive Technology Institute, Korea, Republic of (South Korea); 3: Dawonsys, Korea, Republic of (South Korea); 4: Dawonsys, Korea, Republic of (South Korea); 5: Dongyang Mirae University

PD-M4-7

Digest ID: 544

Bezier Curve-based Shape Optimization of SF6 Gas Circuit Breaker to Improve the Dielectric Withstanding Performance for both Medium and Maximum Arcing Time

Kwak, Chang-Seob (1); Kim, Hong-Kyu (1); Kwak, Joo-Sik (2); Oh, Seung-Ryle (2); Lee, Se-Hee (3)
1: Korea Electrotechnology Research Insititute, Republic of Korea; 2: Power Transmission Laboratory, KEPCO Research Insititute, Republic of Korea; 3: Kyungpook National University, Republic of Korea

PD-M4-8

Digest ID: 201

Research on Stress Characteristics of Shunt Reactor Considering Magnetic and Magnetostrictive Anisotropy

Ben, Tong (1); Yang, Qingxin (1,2); Yan, Rongge (1); Zhu, Lihua (2); Zhang, Changgeng (1)
1: Hebei University of Technology, China, People's Republic of; 2: Tianjin Polytechnic University, China, People's Republic of

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Withdrawn

PD-M4-10

Digest ID: 593

A Study of Arc Modelling in Low-Voltage Switching Devices

Shin, Dongkyu (1); Golosnoy, Igor O. (1); McBride, John W. (2,3)
1: School of Electronics and Computer Science, University of Southampton; 2: Faculty of Engineering and the Environment, University of Southampton; 3: University of Southampton Malaysia Campus

PD-M4-11

Digest ID: 627

Efficient Algorithm for Coupled Problem Simulation of High Dynamic Electromagnetic Actuators

Mach, Frantisek; Dolezel, Ivo
University of West Bohemia, Czech Republic

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Digest ID: 674

Conductivity Reconstruction and Numerical Simulation for Magnetically Mediated Thermoacoustic Imaging

Li, Yanhong (1,2); Liu, Guoqiang (1,2); Xia, Hui (1); Xia, Zhengwu (1); Yang, Yanju (1,2)
1: Institute of Electrical Engineering, Chinese Academy of Sciences, China, People's Republic of; 2: University of Chinese Academy of Sciences, China, People's Republic of

PD-M4-13

Digest ID: 679

Lightning strike effects on composite aircraft

Audiffred, Diego Bonkowski de La Sierra; Travassos, Xisto Lucas; Possamai, Talita Sauter; Bohrer, Êmili; Narciso, Gabriella
Federal University of Santa Catarina, Brazil

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Digest ID: 690

Magnetic Field Harmonics and its Effect on Vibration in a Bridge Configured Winding Induction Motor

Kumar, Gaurav (1); Kalita, Karuna (1); Tammi, Kari (2)
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