
Session Title	[PB-A6] Static and Quasi-Static Fields 2
Date and Time	June 20 (Tuesday) / 14:10-16:00
Place	Rm. 102 (1F)
Session Chair	To be Announced

PB-A6-1 **Digest ID: 10**

Numerical Analysis and Experiments on the Electromechanical Behavior of Wired-Shape Conducting Particles

Techaumnat, Boonchai (1); Huynh, Viet Quoc (2); Hidaka, Kunihiro (3)
1: Chulalongkorn University, Thailand; 2: Ho Chi Minh City University of Technology; 3: University of Tokyo

PB-A6-2 **Digest ID: 183**

Comparison of Numerical Error Estimators for Eddy Current Problems solved by FEM

TITTARELLI, Roberta (1); LE MENACH, Yvonnick (1); PIRIOU, Francis (1); CREUSE, Emmanuel (1); NICAISE, Serge (2); DUCREUX, Jean-Pierre (3)
1: University of Lille, France; 2: University of Valenciennes; 3: EDF R&D, France

PB-A6-3 **Digest ID: 109**

The movement characteristics of the charged haze particulates in the ionized field and its influence on the contamination of insulator

yang, Fan (1); Gao, Bing (1); zhang, Songyang (2); yao, Degui (2); kou, Xiaokuo (2); liu, Zehui (2)
1: ChongQing University, China, People's Republic of; 2: State Grid Henan Electric Power Corporation Research Institute, Henan Province

PB-A6-4 **Digest ID: 202**

Lean complementarity for non-linear magnetostatics

Kapidani, Bernard; Specogna, Ruben
DPIA, University of Udine, Italy

PB-A6-5 **Digest ID: 219**

Iterative solution of eddy current problems on polyhedral meshes

Bettini, Paolo (1); Specogna, Ruben (2); Passarotto, Mauro (2)
1: Department of Industrial Engineering (DII), University of Padova, Italy; 2: Polytechnic Department of Engineering and Architecture (DPIA), University of Udine, Italy

PB-A6-6 **Digest ID: 220**

A new finite element approach for electric field computation at the surface of overhead transmission line conductors

Farah, Arthur Araujo Maia (1); Afonso, Marcio Matias (2); Vasconcelos, João Antônio de (1); Schroeder, Marco Aurélio de Oliveira (3)
1: Federal University of Minas Gerais, Brazil; 2: Federal Center for Technological Education of Minas Gerais, Brazil; 3: Federal University of São João del-Rei, Brazil

PB-A6-7

Digest ID: 231

Synthesis of Equivalent Circuit of Wireless Power Transfer Device Using Homogenization-based FEM

Otomo, Yoshitsugu; Sato, Yuki; Fujita, Shogo; Igarashi, Hajime
Hokkaido University, Japan

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Digest ID: 295

Improvement of the Finite Element Analysis of 3D, Nonlinear, Periodic Eddy Current Problems Involving Voltage Driven Coils under DC Bias

Plasser, Rene (1); Koczka, Gergely (2); Biro, Oszkar (1)
1: IGTE TU Graz, Austria; 2: Transformers Weiz, Siemens Inc, Austria

PB-A6-10

Digest ID: 300

Improved efficiency and accuracy using duality in hybrid boundary element-surface impedance boundary condition formulation.

Freschi, Fabio; Giaccone, Luca; Repetto, Maurizio
Politecnico di Torino, Italy

PB-A6-11

Digest ID: 349

Magnetic Force Analysis in a Gapped-Core Reactor Model under Harmonic Magnetizations by Efficient Frequency-Domain Decomposition

Zhao, Xiaojun (1); Du, Haiquan (1); Cheng, Zhiguang (2); Forghani, Behzad (3); Wang, Gang (1); Liu, Lanrong (2)
1: North China Electric Power University, China, People's Republic of; 2: Institute of Power Transmission and Transformation Technology, China, People's Republic of; 3: Infolytica Corporation, Canada

PB-A6-12

Digest ID: 366

Efficient Preconditioners for Galerkin Fast Multipole Boundary Element Method for 3D Electrostatic Field

Shi, Yuxin; Wang, Zezhong
North China Electric Power University, China, People's Republic of

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Digest ID: 404

Magnetic Power Loss Estimation in Coaxial Magnetic Gears

Filippini, Mattia (1); Alotto, Piergiorgio (1); Bonisoli, Elvio (2); Ragusa, Carlo (3); Repetto, Maurizio (3); Vigliani, Alessandro (2)
1: Dept. of Industrial Engineering, University of Padova; 2: DIMEAS-Politecnico di Torino, Italy; 3: DENERG-Politecnico di Torino, Italy

PB-A6-14

Digest ID: 385

Parallel Solving of 3D Eddy Current Losses in Large Transformer Based on Element by Element Method

Wu, Dongyang (1,2); Yan, Xiuke (1); Tang, Renyuan (1); Xie, Dexin (1)
1: Shenyang University of Technology, China, People's Republic of; 2: Liaoning Efacec Electrical Equipment.,LTD,China, People's Republic of