
Session Title [OA2] Material Modelling
Date and Time June 19 (Monday) / 16:20-18:00
Place Grand Ballroom (2F, 201)
Session Chair To be Announced

OA2-1 **16:20-16:40**

Algebraic model for hysteresis and anisotropy of magnetic materials modeled by finite element method.

Glehn, Gregor; Steentjes, Simon; Hameyer, Kay
 RWTH Aachen University, Institute of Electrical Machines, Aachen, Germany

OA2-2 **16:40-17:00**

Magnetostrictive Characteristics in Grain-Oriented Laminated Cores Magnetized with a DC Biased Magnetic Field

Wang, Zhen (1); Zhang, Yanli (1); Ren, Ziyang (1); Zeng, Linsuo (1); Xie, Dexin (1); Koh, Chang-Seop (2)
 1: Shenyang University of Technology, China; 2: Chungbuk National University, Korea, Republic of (South Korea)

OA2-3 **17:00-17:20**

Analytical Hysteresis Model and Initial Conditions for Inrush Current Computations using FEM

Renhart, Werner (1); Biro, Oszkar (1); Magele, Christian (1); Preis, Kurt (1); Rabel, Alexander (2)
 1: Graz University of Technology/IGTE, Austria; 2: Transformer Weiz, Siemens Inc. Austria Weiz, Austria

OA2-4 **17:20-17:40**

Precise Modeling of Magnetically-Biased Graphene through a Recursive Convolution FDTD Method

Amanatiadis, Stamatios A. (1); Kantartzis, Nikolaos V. (1); Ohtani, Tadao (2); Kanai, Yasushi (3)
 1: Aristotle University of Thessaloniki, Greece; 2: Omachi, Asahikawa, Japan; 3: Niigata Institute of Technology, Japan

OA2-5 **17:40-18:00**

Magnetic Field Analysis of Window-shaped Core for Verifying Accuracy of Isotropic Vector Hysteresis Model

Minowa, Naoki; Takahashi, Yasuhito; Fujiwara, Koji
 Doshisha University, Japan