

Session Title	[PB-M4] Novel Computational Methods for Machines and Devices 1
Date and Time	June 20 (Tuesday) / 11:00-12:50
Place	Rm. 104 (1F)
Session Chair	Maurizio Repetto (the Politecnico di Torino, Italy)

PB-M4-1 **Digest ID: 44**

Magnetic field continuity conditions in finite element analysis

Lefevre, Yvan; Henaux, Carole; Llibre, Jean-François
LAPLACE, University of Toulouse, CNRS, France

PB-M4-2 **Digest ID: 805**

A Novel 2-Dimensional Analysis Method considering Axial Flux Leakage in Spoke-Type Permanent Magnet Machines

Seo, Jung-Moo (1); Ro, Ah-Reum (1); Jung, Hyun-Kyo (2)
1: Korea Electronics Technology Institute, Korea, Republic of (South Korea); 2: Seoul National University, Korea, Republic of (South Korea)

PB-M4-3 **Digest ID: 85**

Design and Analysis of a PM Vernier Machine Considering the Effects of Flux Modulation and Core Losses

Kim, Byungtaek
Kunsan National University, Korea, Republic of (South Korea)

PB-M4-4 **Withdrawn**

PB-M4-5 **Digest ID: 122**

Magnetic Slot Wedge Application Analysis in Double-fed Asynchronous Motor-generator by Finite Element Method

Xiao, Yang (1); Zhou, Libing (1); Liu, Jianjun (1,2); Wang, Jin (1); Ma, Yiming (1)
1: Huazhong University of science and technology; 2: Dongfang Electric Machinery Co., Ltd, Dongfang Electric Corporation

PB-M4-6 **Digest ID: 223**

Analysis and Design of a Low Cost Linear Switch Reluctance Machine for Long Conveyor Transmissions

Zhang, Deng-Xu; Wang, Xiu-He; Wang, Dao-Han; Du, Xing-Fei
Shandong University, China, People's Republic of

PB-M4-7 **Digest ID: 576**

Field-Circuit Analysis of Torque Pulsations of an Induction Machine under Inter-Turn Short Circuit

Pietrowski, Wojciech; Górný, Konrad
Poznan University of Technology, Poland

PB-M4-8

Digest ID: 270

Detailed Electromagnetic Analysis of a High Specific Power Slotless Permanent Magnet Motor with Imbalanced Armature Windings

Cho, Han-wook (1); Yoon, Andy (2); Renner, Nathaniel (2); Haran, Kiruba (2)

1: Chungnam National University, Korea, Republic of (South Korea); 2: University of Illinois at Urbana-Champaign

PB-M4-9

Digest ID: 279

Rotor Induced Eddy Current Loss in Rectangular Bar Wave Windings of Permanent Magnet Electrical Machines for EV/HEVs

Fan, Xinggang; Qu, Ronghai; Li, Dawei; Wang, Cong; Li, Jian; Huo, Yongsheng

Huazhong University of Science and Technology, Wuhan, China

PB-M4-10

Digest ID: 320

Torque Analysis of a Novel Radial Flux Movable Stator Permanent Magnet Eddy-Current Coupling

Li, Yibo; Lin, Heyun; Yang, Hui; Wang, Haitao; Fang, Shuhua

Southeast University, China, People's Republic of

PB-M4-11

Withdrawn

PB-M4-12

Digest ID: 693

Demagnetization Investigation for Partitioned Rotor Permanent Magnet Flux Switching Machine by Transient Co-simulation Approach

Fan, Deyang; Zhu, Xiaoyong; Quan, Li; Xiang, Zixuan

Jiangsu University, China, People's Republic of