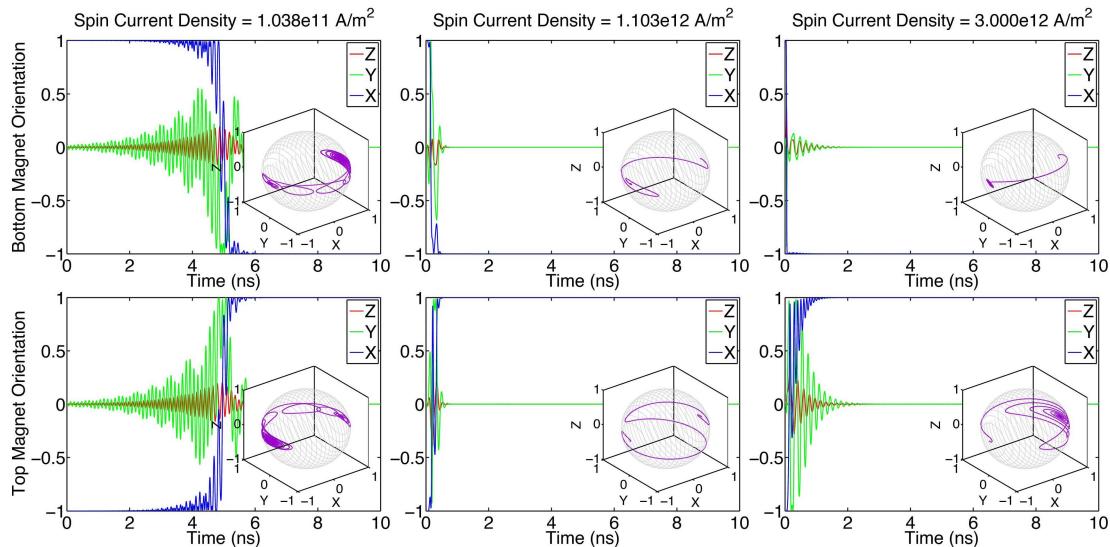


IEEE TRANSACTIONS ON MAGNETICS

A PUBLICATION OF THE IEEE MAGNETICS SOCIETY

FEBRUARY 2016 VOLUME 52 NUMBER 2 IEMGAQ (ISSN 0018-9464)

PART II OF TWO PARTS



\hat{x} -, \hat{y} -, and \hat{z} -components of the two magnets versus time calculated by the three different coupling models. Row 1: M1 (STT-driven) precession. Row 2: M2 (field-driven) precession. Each column corresponds to a different spin-current density. Inset: 3-D precessional path. The figure highlights the differences in M2 precession for different M1 reversal trajectories. From the paper, “A Model Study of an Error-Free Magnetization Reversal Through Dipolar Coupling in a Two-Magnet System,” by N. Kani *et al.*, 1300112.

IEEE TRANSACTIONS ON MAGNETICS

A PUBLICATION OF THE IEEE MAGNETICS SOCIETY

FEBRUARY 2016 VOLUME 52

NUMBER 2

IEMGAQ

(ISSN 0018-9464)

PART II OF TWO PARTS

PAPERS

Magnetism in Solids

- 1300112 **A Model Study of an Error-Free Magnetization Reversal Through Dipolar Coupling in a Two-Magnet System**
N. Kani, S.-C. Chang, S. Dutta, and A. Naeemi
- 1300205 **Selection and Control of Individual Domain Walls in Nanowire Arrays via Asymmetric Depinning Fields**
A. Kunz, H. H. Le, D. Kutzke, and J. Vogeler-Wunsch

Magnetic Materials

- 2000114 **Magnetic Properties of Electrical Steel Sheets in Respect of Cutting: Micromagnetic Analysis and Macromagnetic Modeling**
M. Hofmann, H. Naumoski, U. Herr, and H.-G. Herzog
- 2000204 **Hysteretic Behavior of the Dynamic Permeability in FeCoB Thin Films**
B.-S. Zhang, Z. Yuan, H. Zhao, Y. Yang, and D.-M. Tang
- 2000305 **High Temperature Properties of Highly Electrical Resistive (Fe_{0.81}Co_{0.19})₈₄Ta₉B₇ Alloy Cast in Air**
Z. Turgut, M. S. Lucas, E. Michel, S. L. Semiatin, and J. C. Horwath
- 2000406 **Experimental Characterization of Magnetic Materials for the Magnetic Shielding of Cryomodules in Particle Accelerators**
S. Sah, G. Myneni, and J. Atulasimha
- 2100104 **Anomalous Enhancement of the Magnetic Anisotropy of CoCrPt Alloy Thin Film With Ultrathin Pt Interface**
J.-M. Beaujour, C. Tran, D. Weller, B. York, and B. Gurney
- 2100204 **Mechanism of Hydrogen Absorption in 1:7 Sm-Co Phase With Higher Fe Content**
M. Li, Z. Liu, L. Liu, Z. Xue, R. Chen, X. Liu, D. Lee, and A. Yan
- 2800104 **Preparation of Fe-6.5 wt% SiNi_{0.5}Zn_{0.5}Fe₂O₄ Soft Magnetic Composite With Low Total Loss**
Y. Zhou, M. Wang, Y. Chi, X. Qu, P. Liu, and Z. Zhao

Magnetic Recording and Information Storage Devices and Technologies

- 3000709 **2-D Decoding Algorithms and Recording Techniques for Bit Patterned Media Feasibility Demonstrations**
Y. Obukhov, P.-O. Jubert, D. Bedau, and M. Grobis
- 3100609 **A MAP Decoder for TVB Codes on a Generalized Iyengar-Siegel-Wolf BPMR Markov Channel Model**
J. A. Briffa and V. Buttigieg

- 3100708 **Multilevel Reed-Solomon Codes for PMR Channels**
I. Demirkan and G. Silvus
- 3200405 **Magnetic Switching in BPM, TEAMR, and Modified TEAMR Using Dielectric Underlayer Media**
S. Aksornniem, R. F. L. Evans, R. W. Chantrell, and R. Silapunt
- 3300606 **Laser Heating-Induced Degradation of Ultrathin Media Carbon Overcoat for Heat-Assisted Magnetic Recording**
Y. Ma, R. Ji, Y. Man, M. Shakerzadeh, R. Zheng, H.-L. Seet, and J. Hu
- 3300712 **Approximate Expressions for the Magnetic Potential and Fields of 2-D, Asymmetrical Magnetic Recording Heads**
M. M. Aziz, A. I. Edress, and C. D. Wright
- Applied Magnetism and Phenomena**
- 4000306 **Magnetic Flux Vertical Motion Modulation for 1/f Noise Suppression in Magnetoresistance Field Sensors Using MEMS Device**
W. Tian, J. Hu, M. Pan, D. Chen, and J. Zhao
- 4000407 **Development of MEMS Reed Magnetic Sensors**
S. Nazari Nejad and R. Mansour
- Biomagnetics**
- 5200112 **On-Load Field Component Separation in Surface-Mounted Permanent-Magnet Motors Using an Improved Conformal Mapping Method**
K. Abbaszadeh and F. Rezaee Alam
- Magnetic Measurements and Instrumentation**
- 6000110 **Analysis of Magnetization Properties of the Ferromagnetic Granular Beds**
T. Abbasov and S. Herdem
- 6100105 **Dynamic Scaling Behavior of Nucleation and Saturation Field During Magnetization Reversal of Co/Pt Multilayers**
D. Handoko, D.-T. Quach, S.-H. Lee, K. M. Lee, J.-R. Jeong, D. S. Yang, and D.-H. Kim
- 6300107 **Anisotropy of Losses in Non-Oriented Iron Silicon Sheets: Influence on Electrical Machine Applications**
O. Hamrit, O. de la Barrière, M. LoBue, and F. Mazaleyrat
- 6300208 **Normal-Mode Decomposition of Surface Power Distribution in Multiple-Coil Induction Heating Systems**
C. Carretero, J. Acero, R. Alonso, and J. M. Burdio
- Computation and Numerical Methods**
- 7000211 **A Modal Approach for the Solution of the Non-Linear Induction Problem in Ferromagnetic Media**
A. Skarlatos and T. Theodoulidis
- 7200208 **Isogeometric Shape Optimization of Ferromagnetic Materials in Magnetic Actuators**
S.-W. Lee, J. Lee, and S. Cho
- 7400108 **Mixed Finite-Element Method for Resonant Cavity Problem With Complex Geometric Topology and Anisotropic Lossless Media**
W. Jiang, N. Liu, Y. Yue and Q. H. Liu
- 7400209 **A Proper Generalized Decomposition-Based Solver for Nonlinear Magnetothermal Problems**
Z. Qin, H. Talleb, and Z. Ren
- Electromagnetism and Electromagnetic Devices**
- 8000105 **Redesign of an Undercarriage Wheel for a Self-Acting Robot**
V. Kindl, K. Hruska, R. Pechanek, and B. Skala
- 8000212 **Homogenized Magnetoelastic Behavior Model for the Computation of Strain Due to Magnetostriction in Transformers**
M. Liu, O. Hubert, X. Mininger, F. Bouillault, and L. Bernard
- 8000315 **Analytical Modeling of Axial-Flux Permanent Magnet Eddy Current Couplings With a Slotted Conductor Topology**
X. Dai, Q. Liang, J. Cao, Y. Long, J. Mo, and S. Wang

- 8100310 **Analytical Computation of End-Coil Leakage Inductance of Round-Rotor Synchronous Machines Field Winding**
M. Bortolozzi, A. Tessarolo, and C. Buzzese
- 8100410 **Magnetic Saturation in Semi-Analytical Harmonic Modeling for Electric Machine Analysis**
R. L. J. Sprangers, J. J. H. Paulides, B. L. J. Gysen, and E. A. Lomonova
- 8100510 **Analytical Solution of the Magnetic Field and EMF Calculation in Ironless BLDC Motor**
X. Liu, H. Hu, J. Zhao, A. Belahcen, L. Tang, and L. Yang
- 8100610 **Optimal Design of an Outer-Stator Magnetically Geared Permanent Magnet Machine**
P. M. Tlali, S. Gerber, and R.-J. Wang
- 8100710 **Hybrid-Excited Stator Slot Permanent Magnet Machines—Influence of Stator and Rotor Pole Combinations**
Z. Q. Zhu, I. A. A. Afinowi, Y. Guan, J. C. Mipo, and P. Farah
- 8100807 **Effect of Multilayer Windings With Different Stator Winding Connections on Interior PM Machines for EV Applications**
A. S. Abdel-Khalik, S. Ahmed, and A. M. Massoud
- 8100907 **A Novel Multiphase Brushless Power-Split Transmission System for Wind Power Generation**
Y. Liu, S. Niu, and W. N. Fu
- 8200214 **Armature Reaction Field and Inductance Calculation of Ironless BLDC Motor**
X. Liu, H. Hu, J. Zhao, A. Belahcen, and L. Tang

COMMENTS AND CORRECTIONS

- 9700201 **Erratum to “Optimization of Jiles–Atherton Hysteresis Model Parameters Using Taguchi’s Method”**
M. Asif Zaman and Md. Abdul Matin