

711
1-68/4m

IEEE TRANSACTIONS ON MAGNETICS

A PUBLICATION OF THE IEEE MAGNETICS SOCIETY

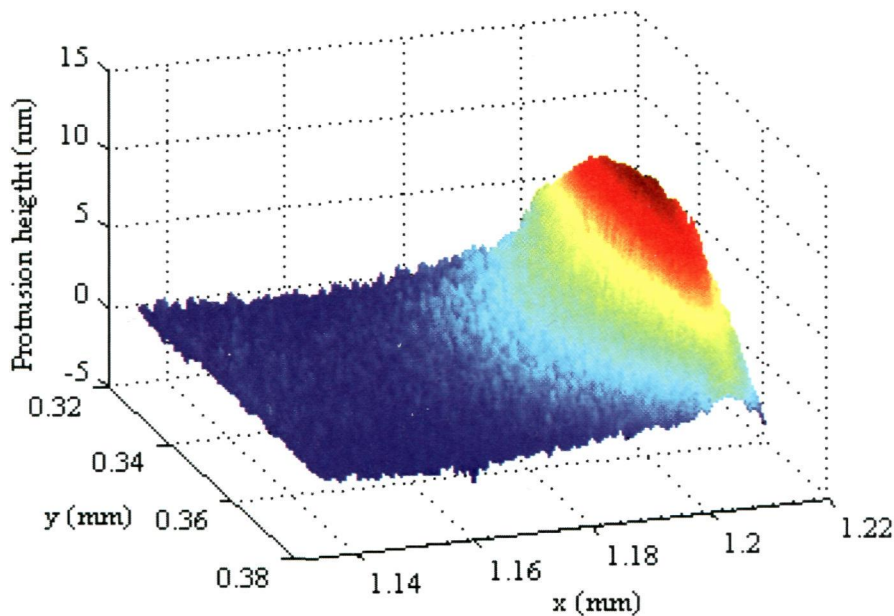
MAY 2014

VOLUME 50

NUMBER 5

IEMGAQ

(ISSN 0018-9464)



Thermal protrusion of slider measured by atomic force microscopy. From the paper
"Stochastic Evaluation of Magnetic Head Wears in Hard Disk Drives,"
by Y. Wang, Z.-S. Ye, and K.-L. Tsui, on p. 3301507.

IEEE TRANSACTIONS ON MAGNETICS

A PUBLICATION OF THE IEEE MAGNETICS SOCIETY

MAY 2014

VOLUME 50

NUMBER 5

IEMGAQ

(ISSN 0018-9464)

Magnetic Materials

- 2301406 **Programmable Self-Assembly, Disassembly, Transport, and Reconstruction of Ordered Planar Magnetic Micro-Constructs**
M. Prikockis, A. Chen, T. Byvank, G. B. Vieira, B. Peters, F. Yang, and R. Sooryakumar
- 2400206 **Defect-Induced Room-Temperature Ferromagnetism in SnO₂ Nanowires Controlled by UV Light Irradiation**
S. Bhaumik, A. K. Sinha, S. K. Ray, and A. K. Das
- 2400304 **Magnetic Properties of Hot-Pressed FeSb₂**
M. Pokharel, H. Zhao, K. A. Modic, Z. Ren, and C. Opeil

Magnetic Recording and Information Storage Devices and Technologies

- 3000409 **Efficient Disk Drive Performance Model for Realistic Workloads**
D. J. Lingenfelter, A. Khurshudov, and D. M. Vlassarev
- 3201606 **Noise Characterization of Perpendicular Recording Media by Cluster Size Measurements**
B. Varghese, S. N. Piramanayagam, W. K. Lee, and H. K. Tan
- 3301507 **Stochastic Evaluation of Magnetic Head Wears in Hard Disk Drives**
Y. Wang, Z.-S. Ye, and K.-L. Tsui

Applied Magnetism and Phenomena

- 4004305 **A Broadband Radar Absorber Based on Perforated Magnetic Polymer Composites Embedded With FSS**
L. Zhang, P. Zhou, H. Zhang, L. Lu, G. Zhang, H. Chen, H. Lu, J. Xie, and L. Deng
- 4200204 **Microwave-Induced DC Response of Spin Wave Resonance Driven by an Anisotropic Built-In Field in a Permalloy Thin Strip**
Z. Wang, L. Huang, X. Zhu, X. Chen, and W. Lu
- 4400108 **Dual Functionality of a Simple Magnetic/Semiconductor Heterostructure Device: Diode and Magnetoresistive Element**
A. Sarkar, R. Adhikari, and A. K. Das
- 4600107 **Simulation and Experimental Measurement of Magnetic Fluid Transmission Characteristics Subjected to the Magnetic Field**
Y. Zhao, R.-Q. Lv, H. Li, and Q. Wang



Magnetic Measurements and Instrumentation

- 6500103 **A Low-Noise Fundamental-Mode Orthogonal Fluxgate Magnetometer**
R. Bazinet, A. Jacas, G. A. B. Confalonieri, and M. Vazquez

Computation and Numerical Methods

- 7026909 **A Seminumerical Finite-Element Postprocessing Torque Ripple Analysis Technique for Synchronous Electric Machines Utilizing the Air-Gap Maxwell Stress Tensor**
C. M. Spargo, B. C. Mecrow, and J. D. Widmer
- 7027010 **Development of Dynamic Magnetic Circuit Models Including Iron Saturation and Losses**
A. V. Radun
- 7200207 **Instantaneous Power Balance in Finite-Element Simulation of Electrical Machines**
P. Rasilo, L. Perkkiö, A. Hannukainen, B. Silwal, T. Eirola, and A. Arkkio
- 7400204 **Two-Dimensional Magnetostatic Finite-Element Simulation for Devices With a Radial Symmetry**
D. Vanost, H. De Gerssem, J. Peuteman, G. Gielen, and D. Pissoot
- 7400308 **A 2-D-Based Analytical Method for Calculating Permanent Magnetic Ring Bearings With Arbitrary Magnetization and Its Application to Optimal Bearing Design**
E. Marth, G. Jungmayr, and W. Amrhein
- 7400408 **A Fast Finite Element Model Taking Into Account 3-D Effects for the Optimal Design of Micro-Hybrid Starters**
R. Andreux, J. Fontchastagner, N. Takorabet, and N. Labbe

Electromagnetism and Electromagnetic Devices

- 8101011 **Design and Optimization of a Radial Hybrid Magnetic Bearing With Separate Poles for Magnetically Suspended Inertially Stabilized Platform**
J. Fang, C. Wang, and T. Wen
- 8101108 **A Novel Conical Active Magnetic Bearing With Claw Structure**
S. Xu and J. Fang
- 8201012 **Reduction of Low Space Harmonics for the Fractional Slot Concentrated Windings Using a Novel Stator Design**
G. Dajaku, W. Xie, and D. Gerling
- 8201109 **Performance Evaluation of a Low-Speed Single-Side HTS Linear Induction Motor Used for Subway System**
D. Li, W. Li, J. Fang, X. Zhang, and J. Cao
- 8201207 **Analysis of Overhang Effect for a Surface-Mounted Permanent Magnet Machine Using a Lumped Magnetic Circuit Model**
J.-M. Seo, I.-S. Jung, H.-K. Jung, and J.-S. Ro
- 8700111 **Influence of Pole and Slot Combinations on Magnetic Forces and Vibration in Low-Speed PM Wind Generators**
M. Valavi, A. Nysveen, R. Nilssen, R. D. Lorenz, and T. Rølvåg

Comments and Corrections

- 9700101 **Correction to "Comparison of Krylov-Type Methods for Complex Linear Systems Applied to High-Voltage Problems"**
M. Clemens, U. van Rienen, and T. Weiland