IKARIGA Atsushi

Organization	Electrical Engineering
Position	Professor
Academic Title	Doctor(Engineering)
Research Fields	Electrical Machinery, Application of Electromagnetics and Mechanics

<< Research Subjects >>

1. Improvement on Magnetic Power Losses of Rotating Electrical Machines
2. Development and Application of High-Performance Permanent Magnet Linear Synchronous Motor
3. Improvement on Techniques of Rotating Electrical Machine Design

<< Academic Activities >>

Papers and Notes

1. Atsushi Ikariga, Akira Goto, Takuya Okamoto: "Development of a High-Performance Linear Synchronous Motor for Improvement of Processing Capacity of Semiconductor Process Equipment", Journal of The Japan Society of Applied Electromagnetics and Mechanics, Vol.21, No.4, pp.536-541 (2013.12.10)
2. Atsushi Ikariga, Akira Goto, Takuya Okamoto, Takashi Todaka, Masato Enokizono: "Development of a High-Density Linear Synchronous Motor", Journal of The Japan Society of Applied Electromagnetics and Mechanics(MAGDA 2011 in Pacific Asia, Special Volume), Vol.20, No.2, pp.325-330(2012.6.10)
3. Atsushi Ikariga, Akira Goto, Takuya Okamoto, Yuji Tsuchida, Masato Enokizono, Takashi Todaka: "Performance Analysis of a Novel Linear Motor utilizing Magnetic Flux Concentration Type Permanent Magnet Arrangements", Journal of The Japan Society of Applied Electromagnetics and Mechanics, Vol.18, No.4, pp.317-322(2010.12.10)
4. Atsushi Ikariga, Hiroyasu Shimoji, Takashi Todaka, Masato Enokizono: "High-Density Permanent Magnet Machines", International Journal of Applied Electromagnetics and Machines(ISEM 2005 Special Volume), Vol.25, Nos1-4, pp.19-23(2007.5.1)
5. Atsushi Ikariga, Hiroyasu Shimoji, Masato Enokizono, Toru Mauchi: "Magnetic Characteristic Analysis of Dual-Rotor Machines", International Journal of Applied Electromagnetics and Machines(ISEM 2005 Special Volume), Vol.25,Nos1-4, pp.173-177(2007.5.1)
6. Masato Enokizono, Takashi Todaka, Yuji Tsuchida, Atsushi Ikariga, Shinya Urata, Tohru Mauchi, Akira Umeduki, Kenichi Ebihara, Hiroshi Shioduki, Hiroyasu Shimoji, Yasuhiro Gotho, Mutsunori Obata, Yukihito Kido: "Development of High Density and High Efficiency Machines", Journal of Materials Processing Technology, Vol.181/1-3, pp110-114 (2007)
7. Masato Enokizono, Hiroyasu Shimoji, Atsushi Ikariga, Shinya Urata, Motomichi Ohoto: "Vector Magnetic Characteristic Analysis of Electrical Machines", Institute of Electrical and Electronics Engineers, IEEE TRANSACTIONS ON MAGNETICS,Vol.41,No.5,pp.2032-2035(2005)
8. Masato Enokizono, Syuichi Takahashi, Atsushi Ikariga: "A Measurement System for Two-Dimensional DC-Biased Magnetic Property", The Korean Institute of Electrical Engineers, KIEE International Transactions on EMECS,Vol.2-B,No.4,pp.143-148 (2002)

Presentations

1. Akira Goto, Takuya Okamoto, Atsushi Ikariga, Takashi Todaka: "A New Linear Actuator utilizing Flux Concentration Type Permanent Magnet Arrangement", Proceedings of International Conference on Electrical Machines and Systems 2010 (ICEMS 2010), LM-04, pp.1500-1505 (2010)
2. Takashi Todaka, Atsushi Ikariga, Shinya Urata, Masato Enokizono: "Two-Dimensional Vector Magnetic Property and its Applications in Designing", Proceedings of 13th International Symposium on Theoretical Electrical Engineering (ISTET 2005),pp.117-120 (2005)

3. Atsushi Ikariga, Masato Enokizono, Hiroyasu Shimoji, Kensuke Shuto: "Core Material Design of Rotating Machines with a New Topology", Proceedings of International Conference on Electrical Machines and Systems 2004(ICEMS 2004),OB-1,617-M06-079(2004)
4. Masato Enokizono, Hiroyasu Shimoji, Atsushi Ikariga: "Magnetic Characteristic Analysis of Rotating Machines using Oriented Electrical Steel Sheet", Proceedings of 2004 International Aegean Conference on Electrical Machines and Power Electronics(ACEMP 2004),pp.105-110(2004)