

CES Transactions on Electrical Machines and Systems

March 2023 Volume 7 Number 1 (ISSN 2096-3564)

Content

- 1 New Topologies of High Torque Density Machine Based on Magnetic Field Modulation Principle
..... *Y. Yue, S. F. Jia, D. L. Liang*
- 11 Research on the Voltage Supporting Capability of Multi-VSC-HVDC Subsystems Operation Strategy to Receiving-end LCC-HVDC Network in Weak AC Grid *T. Li, Y. L. Li, Y. C. Zhu*
- 21 Introduction to Mesh Based Generated Lumped Parameter Models for Electromagnetic Problems using Triangular Elements *H. Diab, S. Asfirane, N. Bracikowski, F. Gillon, Y. Amara*
- 35 Reduction of Unipolar Leakage Flux and Torque Ripple in Consequent-pole PM Vernier Machine
..... *L. Xu, Y. Li, W. X. Zhao, G. H. Liu*
- 45 MPC-based Torque Distribution for Planar Motion of Four-wheel Independently Driven Electric Vehicles: Considering Motor Models and Iron Losses *Y. Y. Su, D. L. Liang, P. Kou*
- 54 Encoderless Five-phase PMa-SynRM Drive System Based on Robust Torque-speed Estimator with Super-twisting Sliding Mode Control *G. A. A. Aziz, R. A. Khan*
- 63 Coupler Loss Analysis of Magnetically Coupled Resonant Wireless Power Transfer System
..... *D. Li, X. S. Wu, W. Gao, D. Luo, J. X. Gao*
- 73 Comparative Study of Linear Variable Flux Reluctance Machine with Linear Wound Field Flux Reversal Machine *T. T. Jiang, L. Xu, J. H. Ji, W. X. Zhao*
- 81 An Overview of High-efficiency Synchronous Reluctance Machines
..... *X. Li, Y. W. Wang, Y. H. Cheng, D. W. Li, R. H. Qu*
- 92 Investigation of Nonlinear PI Multi-loop Control Strategy for Aircraft HVDC Generator System with Wound Rotor Synchronous Machine..... *Z. Y. Qu, Z. R. Zhang, J. C. Li, H. Shi*
- 100 Integrated Sliding Mode Velocity Control of Linear Permanent Magnet Synchronous Motor with Thrust Ripple Compensation *Q. Li, M. C. Lyu, J. T. Yang, S. D. Huang*
- 110 Loss Analysis of Magnetic Gear with Slotted in Magnetic Modulation Ring
..... *C. Tan, W. Liu, Y. Y. Rao, W. Z. Tang, L. B. Jing*
- 118 Sliding Mode Control Approach with Integrated Disturbance Observer for PMSM Speed System
..... *L. Yuan, Y. H. Jiang, L. Xiong, P. Wang*