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School of Electrical and Electronic Engineering HUST

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电工理论与电磁新技术系

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应用电子工程系

电工理论与电磁新技术系



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个人基本情况（主要受教育经历、主要工作经历）

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工学博士，是电气与电子工程学院电工理论与电磁新技术系的专职教师。教学方面主要从事本科生的基础课和专业基础课的授课工作。科研方面主持了国家自然科学基金面上项目，并参与了多项台达科教发展基金等研究工作。在国际一流期刊、会议以及国内权威期刊上发表了二十余篇研究论文。

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He received the B.Sc. degree from Shanghai Jiaotong University, Shanghai, China, in 1992, M.Sc. degree and Ph.D. degree from Huazhong University of Science and Technology, Wuhan, China, in 2003 and 2009, respectively.

Dr. Huang is currently an Associate Professor with the School of Electrical & Electronic Engineering, Huazhong University of Science and Technology. His research interests are the control technique, EMC and reliability of power electronics devices.

研究领域

学术兼职/承担的项目与课题

代表性成果（近年的教学和科研成果、专著与论文、专利、获奖）

- [1] Jin Huang, and Haixia Shi, "Suppression of the Peak Harmonics from Loads by Using a Variable Capacitance Filter in Low-Voltage DC/DC Converters," IEEE Transactions on Electromagnetic Compatibility, vol. 58, no. 4, pp. 1217-1227, Aug. 2016.
- [2] Jin Huang, and Haixia Shi, "A Hybrid Filter for the Suppression of Common-Mode Voltage and Differential-Mode Harmonics in Three-Phase Inverters With CPPM," IEEE Transactions on Industrial Electronics, vol. 62, no. 7, pp. 3991-4000, Jul. 2015.
- [3] Jin Huang, and Haixia Shi, "Reducing the Common-Mode Voltage through Carrier Peak Position Modulation in an SPWM Three-Phase Inverter," IEEE Transactions on Power Electronics, vol. 29, no. 9, pp. 4490-4495, Sep. 2014.
- [4] Jin Huang, and Rui Xiong, "Study on Modulating Carrier Frequency Twice in SPWM Single-Phase Inverter," IEEE Transactions on Power Electronics, vol. 29, no. 7, pp. 3384-3392, Jul. 2014.
- [5] Jin Huang, and Haixia Shi, "Suppressing low-frequency components of common-mode voltage through reverse injection in three-phase inverter," IET Power Electronics, vol. 7, no. 6, pp. 1644-1653, Jun. 2014.
- [6] Huang Jin, Xiong Rui, Zhang Rong, Ge Ting, Zhao Guoliang, and Zhang Yu, "A Synthesis Scheme of Real-time Estimating

Electromagnetic Interference (EMI) Spectrum in Converters,” Proceedings of the Chinese Society of Electrical Engineering, vol. 33, no. 6, pp. 76-84, Feb. 2013.

[7] Huang Jin, Xiong Rui, Wang Zhi, Zuo Wenping, and Zou Yunping, “SPWM Control Strategy to Reduce Inverter Common-Mode Interferences Based on Three-Phase Four-Leg Structure,” Transactions of China Electrotechnical Society, vol. 24, no. 3, pp. 110-115, Mar. 2009.

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