

- [2]. ZENG Xiang-jun, YIN Xiang-gen, ZHANG Zhe, et al. Study on feeders grounding fault protection based on zero sequence admittance[J]. Proceedings of the CSEE,21(4):5-10, 2001.
- [3]. SU Zhan-tao, Lü Yan-ping. A New Wavelet Package Analysis Based Method to Detect Faulty Line for Single Phase to Ground Fault Occurred in Distribution Network with Small Current Neutral Grounding[J]. Power System Technology, 28(12):30-33, 2004.
- [4]. DONG Xin-zhou, BI Jian-guang. Analysis on transient traveling wave and study on fault line selection for distribution lines[J]. Proceedings of the CSEE,25(4):1-6, 2005.
- [5]. ZHANG Hui-fen, PAN Zhen-cun, SANG Zai-zhong. Injecting current based method for fault location in neutral isolated power system[J]. Automation of Electric Power Systems, 28(3):64-66, 2004.
- [6]. ZHU Dan, JIA Ya-jun, CAI Xu. Transient energy to detect single-phase earthing fault[J]. Electric Power Automation Equipment, 24(3): 75-78, 2004.
- [7]. MAO Peng, DUAN Yu-qian, JIANG Na. A Correlation Analysis Based Method to Detect Faulty Line under Single Phase to Ground Fault Occurred in Distribution Network with Small Current Neutral Grounding[J]. Power System Technology, 28(2):36-39, 2004.
- [8]. LI Bin, SHU Hong-chun. Analysis on instantaneous power during single-phase earth fault occurred in resonant grounded system [J]. Power System Technology, 36(7): 260-268, 2012.
- [9]. WANG Mao-hai, LIU Hui-jin. A universal definition of instantaneous power and broad-sense harmonic theory [J]. Proceedings of the CSEE, 21(9): 68-73, 2001.
- [10]. H. Akagi, E. H. Watanabe, M. Aredes. Instantaneous power theory and its application in electric power regulation [M]. China Machine Press, 2009.
- [11]. H. Akagi, Y. Kanazawa, A. Nabae. Generalized theory of the instantaneous reactive power in three-phase circuits [C]. International Power Electronics Conference. pp. 1375-1386, 1983.
- [12]. H. Kim, H. Akagi. The instantaneous power theory based on mapping matrices in three-phase four-wire systems[C]. Power Conversion Conference-Nagaoka, Vol. 1, pp. 360-366, 1997.
- [13]. E. H. Watanabe, R. M. Stephan, M. Aredes. New concepts of instantaneous active and reactive powers in electrical systems with generic loads[J]. IEEE Transactions on Power Delivery, 8(2): 697-703, 1993.
- [14]. M. Depenbrock, V. Staudt, H. Wrede. A theoretical investigation of original and modified instantaneous power theory applied to four-wire systems[J]. IEEE Transactions on Industry Applications, 39(4): 1160-1168, 2003.
- [15]. LIU Ji-quan, ZHANG Mao-song. A new method for harmonic detection based on instantaneous reactive power theory [J]. Electrical Measurement and Instrumentation, 10(51): 29-32, 2012.
- [16]. E. H. Watanabe, H. Akagi, M. Aredes. Instantaneous p-q power theory for compensating nonsinusoidal systems[J]. International School on Nonsinusoidal Currents and Compensation, pp. 1-10, 2008.
- [17]. SHU Hong-chun. Power Engineering Signal Processing Applications[M]. Beijing: Science Press, 2009.

- [18]. MEI Guang-yong, HE Jin-peng, GUO Peng-jun. Line selection method study on small current grounding system fault based on all waveform correlation analysis [J]. (10): 5-7, Jiangsu Electrical Apparatus. 2011.



Wu Xing is currently a graduate student at Xi'an University of Science & Technology, P. R. China. His main areas of interest are power system control and protection.