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mm Special Session 16 mm

Digital Twins and On-line Monitoring Technology of Electrical Equipment for New Power System

○ INTRODUCTION AND TOPICS ○

With the development of new power system and smart grid, higher requirements are put forward for the digital twins and condition monitoring technology of electrical equipment. As the key equipment in power system, the operation reliability of transformer and high voltage switch affect the security and stability of grid. At present, some conventional monitoring methods on the operation status of transformer and high voltage switch have certain limitations, for example, the detection method for deformation fault of transformer winding includes frequency response and short circuit reactance method, and detection method for electrical contact fault of the high voltage switch includes loop resistance test, etc. These methods have the limitations of offline detection, and cannot identify latent faults. This seminar focuses on discussing the research progress of digital twins and online monitoring technology of electrical equipment in power system. The contents include, but are not limited to, the following topics: theoretical models, digital twins, experimental testing, spectrum identification, condition monitoring, intelligent perception, and diagnosis methods of electrical equipment.

SPECIAL SESSION CHAIRS



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\circ PUBLICATION & SUBMISSION \circ

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