



基于RTDS的HVDC电压波动机理研究

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**摘要:** 直流电压波动给直流系统带来巨大的危害。以往的研究发现传感器的故障是导致电流波动的原因。利用RTDS仿真系统对传感器影响直流电压的事件进行了试验分析, 得出了传感器故障时的内阻变化是直流电压波动的直接原因这一结论。为后续持续的研究和相关工作提供了很好的借鉴。

**关键词:** 直流输电; 电压波动; 直流测量; RTDS

**RTDS-based Research on the Principle of HVDC Voltage Fluctuation**

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**Abstract:** Voltage fluctuation can bring serious damage to HVDC systems. Early research found it was the sensor's fault caused the voltage fluctuation. An experiment based on RTDS system is carried out to simulate a voltage fluctuation case caused by sensor's fault. It is found that the change of resistance of sensors caused voltage fluctuation, which may be a sound reference to on-site handling and further research..

**Key words:** HVDC; voltage fluctuation; DC Measurement; RTDS

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