

短文

树状配电网相间短路的双频法故障诊断

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收稿日期 1994-1-27 修回日期 网络版发布日期 接受日期

摘要

基于传输线理论,提出树状配电网相间短路的双频法故障诊断.采用线路始端诊信逐段传递、故障点逐段搜索和双频诊断的方法,实现配电线路的故障分支识别、故障点定位和过渡电阻定值.实际线路的模拟故障测距表明,方法有效.

关键词 [配电线路](#) [故障分支识别](#) [故障测距](#)

分类号

Double-Frequency Excited Method to Locate Line-to-Line Fault on Power Distribution Network with Tree Structure

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Abstract

On the basis of transmission line theory, double-frequency excited method to locate line-to-line fault on power distribution network with tree structure is presented. The fault branch identification, the fault location and the fault value are completed by means of the detection signal transmitted from the start end to the terminals, searching fault, sectionally, and bi-frequency excited diagnosis. The tests of fault location on actual lines demonstrate that the method is effective.

Key words [power distribution network](#) [fault branch identification](#) [fault location](#)

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