

基于.NET平台的电网故障行波定位软件开发

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摘要

开发了一种基于.NET平台的故障行波定位网络软件。该软件采用浏览器/服务器(Browser/Server, B/S)模式的系统架构, 与安装在各变电站的故障行波定位装置配套使用, 通过通用无线分组业务(general packet radio service, GPRS)网络接收定位装置发送的故障行波波头信息, 依据波头到达各变电站的时间差计算故障点位置。现场应用表明该软件运行稳定, 为电网故障信息的发布、共享提供了方便。

关键词 [电网](#); [故障定位](#); [软件](#); [.NET](#)

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Traveling Wave Fault Location Software Based on .NET Platform

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Abstract

A .NET platform based traveling wave fault location network software is presented. The browser/server mode is applied in the architecture of the network software. This network software is coordinately used with traveling wave fault location devices installed in substations. By means of general packet radio service (GPRS) network, the wave-front information of fault traveling wave that is sent by fault location devices is received and the position of fault point can be calculated by the time difference between the moments of times by which the wave-fronts of traveling waves arrive at substations in both terminals of the faulty line. Field application results show that the presented software runs stably, and the software contributes to the releasing and sharing of power network fault information.

Key words [power grid](#); [fault location](#); [software](#); [.NET](#)

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