架空高压输电线路在线监测系统

中文摘要

信息化时代的到来，各种先进的技术比如无线传感器技术、计算机技术也开始发展起来了，不少国内外的学者专家针对传统监测方法所出现的种种问题运用现有技术都提出了不同的解决方案，研究出了很多的自动监测装置，但这些装置在实际应用中都出现了很多问题，并且监测项目单一，只能满足于对某一方面的监测。本文针对这种情况创新型提出了一种复合型监测系统，可以对输电线路的温湿度、风速以及塔杆倾斜程度等多种项目进行监测，并且及时高效的反馈输电线路状态的实时变化情况，将输电线路的监测数据传输到检测中心，便于工作人员及时的了解线路工作状态，以便对突发情况进行及时应对。

关键词：高压输电线路，监测方法，在线监测系统，输电线路状态

Abstract

With the advent of the information age, various advanced technologies, such as wireless sensor technology and computer technology, have also begun to develop. Many scholars and experts at home and abroad have proposed different solutions and developed a lot of automatic monitoring devices for various problems arising from traditional monitoring methods by using existing technologies, but these devices have many problems in practical application And the monitoring items are single, which can only satisfy the monitoring of a certain aspect. In view of this situation, this paper proposes a new compound monitoring system, which can monitor the temperature, humidity, wind speed, tower tilt and other items of the transmission line, timely and efficiently feedback the real-time change of the transmission line status, and transmit the monitoring data of the transmission line to the detection center, so that the staff can understand the line working status in time So as to deal with emergencies in a timely manner.

Keywords: High voltage transmission line, monitoring method, online monitoring system, transmission line status

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