

基于无线传输方式的农业装备共性参数测控系统研究 Parameters Measurement and Control Systems of Agricultural Equipment Similarity Based on Various Wireless Transmission Modes

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关键词: 农业装备 共性参数 测控系统 无线传输 虚拟仪器

摘要: 针对农业装备性能检测过程中的布线繁琐、传输受限、不易扩展等缺点, 基于嵌入式技术和虚拟仪器技术设计了多种无线传输方式的农业装备共性参数测控系统, 解决了农业装备检测设备田间测试工作可靠性差、传统测试仪器功能单一及缺乏智能化数据处理等问题。实现了集智能型农业装备共性参数采集、无线传输平台、计算机无线接收与处理于一体的农业装备共性参数测试系统, 有效地提升了农业装备的质量和自动化水平。 There are disadvantages in agricultural equipment testing systems, such as difficulties with wiring, limited transmission and the problematic expansion. Yet with embedded technology and virtual instruments, the development of various wireless transmission modes for agricultural equipment, which related to parameters measurement and control systems, improved the overall reliability. Embedded technology and virtual instruments addressed testing in the field, the single function of traditional testing instruments, the lack intelligent data processing, and so on. The core technology integrated intelligent agricultural equipment by using similarity parameters acquisition, and wireless transmission platform development, in addition to computer software platforms for receiving and handling wireless data transmission. The quality of agricultural equipment and automation level was effectively improved.

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