

一种变量施肥技术的实现及其台架试验 Design and Experiment of a Variable Rate Fertilization Control System

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关键词: 变量施肥 控制系统 台架试验

摘要: 采用单片机作为CPU, 结合压力传感器、AD采集卡以及伺服电动机, 设计了变量配肥施肥控制系统, 同时设计与硬件配套的上位机软件, 用来采集数据与发送命令, 台架试验表明, 该系统能实现变量配肥施肥, 且结构简单, 施肥精度达到95%。 The control technique of variable rate fertilization is introduced. Using single chip microcomputer as CPU, a control system of variable rate fertilization was designed, including force sensor, AD data acquisition system and servo-actuator. An assorted software was designed for selecting data and sending commands. Through test-bed experiment and analysis, the system can complete the control of variable rate fertilization, which has a simple structure, stable operation and high , fertilization precision up to 95%.

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