

流变态土壤切削试验用室内土槽与测试系统设计 Research on Indoor Soil Bin and Test System for Rheological Soil Tillage

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关键词: 水田 试验土槽 测试系统 设计 数据采集

摘要: 根据农业机械在水田作业的实际情况, 设计了模拟田间实际作业的水田试验土槽。阐述了设计方案及设计过程, 提出了解决湿基制备、土壤含水率控制等问题的方法。根据室内试验土槽的功能和特点, 开发了与之配套的试验数据实时采集系统。 The simulating test is the important means and method to reduce cost and raise efficiency of new type of farm machinery design. According to the actual working circumstances of farm machinery in the paddy field, a trial soil bin which could imitate actual work in field was designed. The project and process of the soil bin design were introduced briefly. The methods to resolve the problems such as how to make the wet soil and how to control the water content of soil were proposed; based on the analysis of the functions and characteristics of the soil bin, experimental data sampling system was developed.

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