

白洪光 山东 山东省冶金科学研究院 250014

摘要：利用现场分散采集，通过GPRS通信，最后由中心计算机集中接收处理和控制在，构成基于GPRS通信的油田开发远程测控系统，实现对油田现场分散设备多种参数的现场测量、远种传输和集中处理。详细介绍基于GPRS通信的油田开发远程测控系统的构成、监控中心计算机系统的构成以及远程测控终端工作原理，通过电参数的计算公式给出抽油机工况诊断判断依据。

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Design of the remote measurement and controlling system for Oil Wells based on GPRS communication

250014

Abstract: To collect and calculate variety of parameters of dispersive oil wells and other information units, a new type of remote measurement and controlling system is presented, which is based on GPRS Communication. The terminals of this system gather the effective data dispersedly. The central computer receives and processes these data through GPRS communication, then controls the terminals automatiocally. The composition of this system is introduced in detailed, including the constitution of monitor central computer system. After that, the operating principle of the remote measurement and controlling terminal is analyzed with several formulas of the important electrical parameters which can indicate the work condition of the oil extractor. This system is able to dispose not only normal petroleum production, but most of the emergent problems without artificial intervention. The experimental data show that this system implements the reliable and precise data communication of the measurement and controlling of oil wells.

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