

柴油机废气再循环电控系统设计

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摘要: 以DL190—12型柴油机为样机, 设计了EGR电子控制系统。硬件设计包括控制单元、数据采集信号处理电路、执行机构驱动电路和显示电路。控制软件采取模块化设计方法。发动机台架实验表明DL190—12型柴油机匹配EGR电子控制系统后, 掺烧15%乙醇的Nox排放量比原柴油机下降50%~90%。EGR electronic control system for diesel DL190[CD*2]12 was developed. The hardware and software of EGR electronic control system was designed respectively. The design of hardware includes the ECU design, data signal acquisition processing circuit design, implementing agencies drive circuit design and display circuit design. The design of control software is modular. The engine table tests showed that Nox emission of the ethanol-diesel blend fuel engine DL190—12 equipped with the EGR was reduced by 50%~90% than that of the original diesel.

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