汽车排放测试主控计算机系统开发

黄琪 金振华 卢青春 聂圣芳 贺泽龙

重庆大学

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摘 要： 为满足轻型汽车法规检测和研究开发的需要设计了排放测试主控计算机系统。基于虚拟仪器体系结构设计了系统硬件，采用统一建模语言设计了系统软件，实现了轻型车气袋采样、连续稀释采样和直接采样的数据采集、流程控制和数据处理。实际应用情况表明，该系统适合轻型汽油车和柴油车排放测试，其测试功能全面，控制可靠，数据准确。 To meet the requirements of light duty vehicle regulation test and research emission test, host computer system was developed. Hardware was designed based on virtual instrument architecture. Software was designed with unified modeling language. Function of data acquisition, flow control and data processing for light duty vehicle bag sampling, continuous dilution sampling and direct sampling were realized. Application in practice showed that the system, with all-around testing performance, reliable control and exact data, is fit for exhaust tests on light gasoline or diesel vehicles.

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