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能量混合型燃料电池城市客车系统设计与性能测试

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摘要 设计了燃料电池城市客车动力系统并对其进行了试验研究。根据动力性要求确定了驱动电机功率，针对零部件现状设计了能量混合型构型并进行了主要零部件的选择，应用车载性能测试系统对该示范车进行了动力性和经济性测试。结果表明，该示范车动力性满足城市行驶需求，经济性优于同类汽油车。

关键词 车辆工程,燃料电池城市客车,能量混合,系统设计,性能测试

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System design and performance test of energy hybrid fuel cell city bus

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Abstract The power system of a fuel cell city bus was designed and its experimental study was carried out. The motor power was calculated from the requirements of dynamic performance; an energy hybrid configuration was designed and its main components were selected; and the dynamic performance and fuel economy were tested using an on board performance test system. The test results show that the dynamic performance of this fuel cell city bus can meet the requirements of urban driving, and the fuel economy is better than that of the traditional gasoline bus.

Key words vehicle engineering fuel cell city bus energy hybrid system design performance test

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