中国机械工程 2012, 23(4) 488-492 DOI: ISSN: 1004-132X CN: 42-1294/TH

车辆工程

电-液复合制动电动汽车制动感觉一致性及实现方法

李玉芳;吴炎花

南京航空航天大学,南京,210016

摘要:
提出了电动汽车电-液复合制动系统制动感觉一致性的定义并对其影响因素进行了分析,得到了实现电-液复合制动电动汽车制动感觉一致性的必要条件。提出了实现制动感觉一致性的电-液复合制动系统的设计和实现方法,并通过AMESim仿真验证了电-液复合制动系统的液压制动力矩输出特性能满足制动感觉一致性的实现要求。

关键词:
电动汽车 电-液复合制动系统 制动感觉 一致性

Brake Feel Consistency of Electric Vehicles with Electro-hydraulic Braking System and Realizing Method

Li Yufang;Wu Yanhua

Nanjing University of Aeronautics and Astronautics,Nanjing,210016

Abstract:
The definition of electric vehicles brake feel consistency was proposed and its impact factors were analyzed,the necessary conditions to realize brake feel consistency were achieved.And a method of designing and realizing electro-hydraulic composite system with better brake feel consistency was proposed.And a simulation model of hydraulic braking system was established with AMESim software to verify that hydraulic torque output response of the electro-hydraulic braking system can meet the variation
requirements of achieving brake feel consistency.

Keywords: electric vehicle;electro-hydraulic braking system;brake feel;consistencyzz')" href="#">
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收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

作者Email:

参考文献:

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