

设计题目： 电动汽车线控制动系统设计

摘 要

电子机械制动系统它替代了以前的液压或气动方法。这是一个全新的制动概念，与其他传统制动控制系统相比具有明显优点。本文在借鉴国内外大量文献的基础上，重点研究了 EMB 系统的结构。

本文通过对具体车型的结构参数进行分析，确定最佳的制动器执行机构形式，并对具体的机构进行选型设计和参数计算，对其中重要的部件进行一系列的强度校核。完成对整体结构的定位，支撑以及密封和装配的设计。最终结果表明该结构符合预期的目的和使用要求。

关键词：电子机械制动执行器；动力学分析；制动效能

Abstract

The electro-mechanical brake system replaces the previous hydraulic or pneumatic methods. This is a brand-new concept of braking, which has obvious advantages compared with other traditional braking control systems. In this paper, based on a large number of references at home and abroad, we focus on the structure of the EMB system.

In this paper, through the analysis of the structural parameters of the specific vehicle, the best brake actuator form is determined, and the specific mechanism selection design and parameter calculation are carried out, and a series of strength checks are carried out for the important parts. Complete the positioning, support, sealing and assembly design of the whole structure. The final results show that the structure meets the expected purpose and use requirements.

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