

重型卡车自动变速器的控制器设计

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关键词: 重型卡车 自动变速器 有限状态机 量子框架

摘要: 针对应用传统有限状态机方法建立的行为模型存在可读性差、系统功能扩展和裁剪困难等缺点,提出将量子框架技术应用于重型卡车自动变速器系统研发中。阐述了量子框架的基本特点及其运行机制,以重型卡车机械式自动变速器为例,阐述了应用量子框架技术开发嵌入式系统的方法与步骤。实例研究表明,应用量子框架技术开发嵌入式系统,可以显著提高设计效率、代码可读性以及系统的可维护性。 The behavior model that uses traditional finite state machine method often has the bad readability. In addition, it's difficult to expand and cut out the system function. So a new modeling approach based on quantum framework was put forward for embedded system development. The essential features and movement mechanism of quantum framework were introduced firstly. Then taking the heavy truck automated mechanical transmission as an example, developing methods and steps with QF technology for embedded system were introduced. The example study indicated that the application of QF technology in embedded system development could significantly increase the efficiency of design, code readability and maintainability of the system.

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