

# 車輛雙煞車系統平台之監控設計與實作

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## 摘要

隨著車輛科技產業的蓬勃發展，人們對於行車安全的重視日益趨增，其煞車系統直接關係著駕駛人員的生命安全，車輛煞車系統在現今的社會，越來越受到重視，因此在相關研究上，亦相對提高了其重要性。本研究旨在探討雙煞車式卡鉗的控制與車輛雙煞車系統作動影響煞車性能測試和其液壓源的探討。利用煞車系統作動情況設定一煞車模擬測試平台，根據平台架構利用LabVIEW圖控式軟體，設計一套動態即時監控介面，來針對此雙煞車系統作動響應進行探討。利用LabVIEW圖控式軟體程式車輛雙煞車系統作動之響應。並利用煞車模擬測試平台，模擬車輛在行走當中，各感應器的之訊號來源，並加以控制。測試結果得知，車輛雙煞車系統經程式監控後，其作動響應能即時跟隨煞車油壓變化而完全反應及作動。

關鍵詞：車輛雙煞車系統、LabVIEW

## 目錄

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