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机轮制动力矩的变结构控制

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VARIABLE STRUCTURAL CONTROL OF BRAKING MOMENT

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摘要

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摘要 从力学与非线性控制理论综合应用的观点出发, 对机轮滑行制动过程中制动力矩的控制问题进行了理论分析与研究, 提出了一种新的制动力矩加、卸载解析条件表达式。通过对机轮制动时机轮-地面系统力学模型的动力学仿真, 定性描述了具有此种制动力矩控制方式的防滑制动系统动态特性

关键词: 防滑制动系统 制动力矩 变结构控制

Abstract: Based on the view of combining nonlinear mechanics with modern control theory, a study is carried out on the control of braking moment for a wheel and tyre during its taxiing and braking. A new analytical expression is proposed for the increasing or decreasing condition of braking moment. With the dynamic simulation on the mechanical model described in the paper, the dynamic properties of the antiskid braking system (ABS) on the condition as stated above are illustrated qualitatively.

Keywords: antiskid braking system braking moment variable structural control

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