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主起落架纵向抖振的动态特性研究

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ON THE DYNAMIC PROPERTIES OF LANDING GEAR WALKING

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摘要

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**摘要** 通过建立主起落架及各元件的力学计算模型,对其在纵向抖振过程中的动态特性进行了动力学仿真研究;给出了反映其动态特性的仿真曲线;讨论了主起落架支柱刚度等结构参数对主起落架纵向抖振的影响

**关键词:** 主起落架 动态特性 机轮 轮胎

**Abstract:** The interactions between the shock absorber, wheel, tyre, etc. will result in the longitudinal buffet of landing gears, i.e. gear walking phenomena. To cope with this analytical models of the main landing gear and of individual components are set up respectively. Furthermore, dynamic simulations are made for the dynamic properties of gear walking. As a result, several simulating curves of the dynamic characteristics are obtained and the effects of some structural parameters, such as the strut stiffness, on the longitudinal buffet of landing gears are discussed.

**Keywords:** main landing gear dynamic properties wheel tyre

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