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机场不平度对小车式起落架前后机轮载荷分配影响

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Impact of Roughness of Airport on Tricycle-type Landing Gear Wheel Load Distribution

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摘要

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摘要

国内外对飞机地面载荷的研究主要是针对每个起落架的总载荷, 鲜见对起落架各机轮载荷分配研究的文献, 而工程上又迫切需要相关的针对飞机起落架机轮载荷分配的计算分析方法。在中国发展大飞机项目的背景下, 以小车式起落架为例, 探讨了机场跑道不平度对小车式起落架前后机轮载荷分配的影响, 提出了小车式起落架机轮载荷分配的分析思路, 并通过计算波音707飞机的起落架机轮载荷分配比例证明了该方法的有效性和可行性。

关键词: 小车式起落架 机场不平度 机轮 载荷分配

Abstract:

Present research at home and abroad on landing gear wheel load tends to focus on its total loading, while study of specific landing gear wheel load distribution is rarely seen. However, there is an urgent need in engineering to develop an appropriate method to calculate aircraft landing gear wheel load distribution. This article studies the impact of the roughness of the airport on the tricycle type undercarriage wheel load distribution and presents a calculation method for the load distribution of the wheels. The effectiveness and feasibility of the method are demonstrated by calculating the wheel load distribution of a Boeing 707 aircraft.

Keywords: tricycle-type landing gear roughness of airport wheels load distribution

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