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### 直升机桨毂动力吸振器的研究

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### STUDY ON ROTOR HEAD ABSORBER OF HELICOPTER

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摘要

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摘要 提出了分析与设计桨毂动力吸振器的力学模型; 探讨两种分析方法(频域法和时域法)及其适用性; 并对吸振器的特性进行了分析; 给出了经试验验证的旋转旋翼动刚度表达式。算例证实本文提出的力学模型、分析方法以及这类吸振器的有效性。

关键词: 旋翼机身相互作用 动态模型 隔振器

Abstract: Rotor head absorber is a new kind of vibration reduction device for helicopter, which provides some advantages in applications. In the paper the mechanical model for analysing and designing such kind of device is presented, and two analytical methods (frequency domain and time domain) and its adaptability are studied. At the same time, the characteristic of rotor head absorber is analysed. The deduced rotor receptance proved by model test is presented. At last the effectiveness of mechanical model, analytical methods, and such type of absorber presented in the paper are illustrated in the calculation example.

Keywords: rotor body interactions dynamic models vibration isolators

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