



航空学报 » 1988, Vol. 9 » Issue (6) :241-247 DOI:

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弹射动力动态性能参数波形与频谱分析的初步研究

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PRELIMINARY RESEARCH ON WAVE AND FREQUENCY SPECTRUM ANALYSIS OF DYNAMIC PERFORMANCE PARAMETERS FOR EJECTION POWER

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摘要

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摘要 研究飞行员弹射救生系统弹射动力的传递作用,采用线性机械振动系统进行模拟试验,利用数字信号的波形与频谱分析方法进行数据处理。试验结果表明:符合弹射动力与人体模型的特点。计算公式和方法是合理可行的。

关键词:

Abstract: The purpose of this study was to investigate the transfer function of ejection power of pilot escape system. The simulation tests were conducted by using linear mechanical vibration system and the data measured were processed by the method of wave and frequency spectrum analysis of digital signal. A preliminary analysis of the processed test data is briefly described in this paper. It shows that processed results of test data are in compliance with the feature of ejection power performance and dummy model. The computational equations and method selected are reasonable and practicable.

Keywords:

Received 1986-12-06;

引用本文:

冈武民. 弹射动力动态性能参数波形与频谱分析的初步研究[J]. 航空学报, 1988, 9(6): 241-247.

Gang Wumin . PRELIMINARY RESEARCH ON WAVE AND FREQUENCY SPECTRUM ANALYSIS OF DYNAMIC PERFORMANCE PARAMETERS FOR EJECTION POWER[J]. Acta Aeronautica et Astronautica Sinica, 1988, 9(6): 241-247.

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