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论文

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一种飞-续-飞随机谱的编制方法及软件

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A METHOD AND A SOFTWARE FOR CONSTRUCTING FLIGHT-BY-FLIGHT RANDOM LOAD SPECTRUM

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摘要

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**摘要** 本文介绍了一种飞-续-飞随机谱的编制方法和软件。它以空测的重心过载数据为基础,经过数据处理后,建立对应于每个飞行任务的Markov矩阵。并调整统计平均后的Markov矩阵以保证可得到一个不中断的过载序列。然后从矩阵中抽取半循环序列,构成飞-续-飞随机谱。本文中讨论了矩阵中半循环的随机抽取方法,给出了应用实例。

**关键词:** 随机载荷 载荷谱 Markov矩阵

**Abstract:** The paper presents a method and a software for constructing flight-by flight random load spectrum. Based on load factors at centre of gravity measured in flights, the software creates Markov matrix corresponding to each flight mission after processing the data. The statistical averaged Markov matrix is adjusted to ensure an obtainable uninterrupted load sequence. Then, a sequence of half-cycle is drawn from the matrix to construct a flight by flight random load spectrum. The drawing method for half-cycle in the matrix is discussed, and an example of application is given in the paper.

**Keywords:** Random load Load spectrum Markov matrix

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