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固体力学与飞行器设计

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### 军用飞机环境适应性评价模型

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### Evaluation Model of Environmental Worthiness for Military Aircraft

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摘要

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**摘要** 阐述了作战飞机面临的环境,分析了各种环境因素对军用飞机作战性能的影响,建立了军用飞机环境适应性评价指标体系。确定了机场环境剖面和衡量各个评价因素样本数据的方法,并提出了军用飞机环境适应性评价模型,通过实例验证了模型的合理性和方法的可行性。算例和分析结论表明,该模型反映了军用飞机在环境适应性方面的技术要求,同时也为军用飞机在环境适应能力上的改进提供了参考。

**关键词:** 军用飞机 环境适应性 影响因素 评价模型

**Abstract:** This article described the environment of combat aircraft, analyzed the influence of diversified environmental factors on their combat performance, and proposed evaluation criteria for the environmental worthiness of military aircraft with emphasis on the analysis of the main factors. The criteria for environment classification were established, the method of evaluating the sample data which can reflect the factors was presented, and the model rationality and method feasibility were validated with instances. Numerical examples and analysis of the results show that the model represented the technological requirements for military aircraft environmental worthiness. At the same time, it also provided reference for improving the environmental adaptive capacity of military aircraft.

**Keywords:** military aircraft environmental worthiness environmental factors evaluation model

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