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今日飞行器结构强度学的几个侧面

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ON SOME BRANCHES OF FLIGHT VEHICLE STRENGTH NOW

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摘要

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摘要 本文简单回顾了固体力学发展的几个历程,说明固体力学的发展与工程应用之间的密切联系,从而介绍了它的一个应用分支——飞行器强度学,并着重讨论了其中的几个重要侧面,如复合材料力学,计算(结构)力学,结构的可靠性分析,疲劳与断裂力学,以及颤振主动抑制等。本文目的在于探索某些可能的研究方向。

关键词:

Abstract: The present paper reviewed briefly some developmest courses of solid mechanics and showed the close relationship between the development of . solid mechanics and its applications to engineerings. The Flight Vehicle Strength, as an application of solid mechanics to aeronautical and mis sile structures, is discussed. Particularly, discussions on some important aspects of the Flight Vehicle Strength much as the Mechanics of Composite Materials, Computational Mechanics, Active Suppression on Flutter, Safety and Reliability of Structures, and Fatigue and Fracture, are given. The present paper aims at the investigation and study of the state-of-the-art of branches described about and trying to predict the possible research trends.

Keywords:

Service

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