



战斗机机动过程与飞行载荷综合设计

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Synthetic design on maneuver processes and flight loads of fighters

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摘要

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摘要 研究了现代战斗机机动过程与飞行载荷综合设计中几个关键问题,结合算例对飞行载荷弹性修正、机动过程弹性修正、机动载荷减缓进行了综合论述.研究表明:结构的弹性变形对飞机弹性气动载荷以及机动过程具有较大的影响,通过使用现代控制技术可以对机动载荷进行有效减缓.研究工作可以为现代战斗机的机动过程与飞行载荷分析与研究提供参考.

关键词: 飞行载荷 气动弹性 机动过程 载荷减缓 现代战斗机

Abstract: The integrated design of maneuver processes and flight loads was investigated for modern fighters. The aeroelastic correction of fight loads and maneuver processes, and maneuver load alleviation were further studied. It indicates that the influences of structural deformation on elastic aerodynamic loads and maneuver processes are significant, and the maneuver loads can be availably alleviated using modern control technique. The investigation of this work can be applied in analysis and study on the maneuver processes and flight loads for the modern fighters.

Keywords: flight loads aeroelasticity maneuver load alleviation modern fighter

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