



航空学报 » 1997, Vol. 18 » Issue (5) :33-36 DOI:

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飞机概念设计中的生存力效益/代价综合评估方法

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COMPROMISE METHOD FOR BENEFITS/COST OF SURVIVABILITY ENHANCEMENT TECHNIQUES IN CONCEPTUAL DESIGN OF AIRCRAFT

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摘要

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摘要 首先介绍了军用飞机在常规武器威胁下的生存力评估指标及几种提高生存力措施; 其次研究了将全因素试验法应用于评价生存力提高措施对生存力评估指标的增益影响的可行性; 最后基于飞机的安全性、维修性、可靠性、保障性、性能及费用等约束条件, 建立了一种能应用全因素试验法在飞机概念设计中进行飞机生存力效益/代价综合评估的方法。算例初步说明了方法的有效性。

关键词: 飞机 作战生存力 作战效能 费用 综合评估

Abstract: Several indexes for estimation of aircraft survivability enhancement techniques in conventional weapons are first studied, and then the feasibility for using full factorial method to estimate the benefits/cost from survivability enhancement is shown. Furthermore, based on some constraints, such as safety, maintainability, reliability, supportability, capability and cost, a compromise method for benefits/cost of aircraft survivability enhancement techniques is developed. The example shows the effectiveness of this method.

Keywords: aircraft combat survivability combat effectiveness-cost compromise

Received 1997-01-15; published 1997-10-25

引用本文:

宋笔锋; 李为吉; 林光宇. 飞机概念设计中的生存力效益/代价综合评估方法[J]. 航空学报, 1997, 18(5): 33-36.

Song Bifeng; Li Weiji Ling Guangyu. COMPROMISE METHOD FOR BENEFITS/COST OF SURVIVABILITY ENHANCEMENT TECHNIQUES IN CONCEPTUAL DESIGN OF AIRCRAFT[J]. Acta Aeronautica et Astronautica Sinica, 1997, 18(5): 33-36.

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