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飞机航炮与支承结构的匹配要求及其设计途径

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REQUIREMENTS AND DESIGN METHOD FOR MATCHING AIRCRAFT GUNS WITH THEIR SUPPORTING STRUCTURE

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摘要

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摘要 在飞机结构动力设计中,航炮与其支承结构的匹配关系是关系着结构设计成败的极重要的问题之一。通过对地面上支承航炮的板簧系统、对供地面试验用的模型结构及对实际结构的响应计算,可求出航炮与其支承结构相匹配的设计曲线。本文给出了一组可供实际使用的匹配曲线。再利用冲击载荷谱图作为实现匹配设计的技术途径,以期实现最佳的结构设计,从而进一步完善了动力强度设计程序。

关键词:

Abstract: In aircraft structural dynamic design the matching of the guns with their supporting structure is one of the most important tasks on which hinges the success or failure of the structural design. The design curves for matching the guns with their supporting structure can be obtained from the response calculation of the plate-spring system supporting the gun on the ground, the model structure tested on the ground and the actual structure. A set of matching curves is given for engineering application. Then, the matching design can be accomplished by means of impact load spectrograms so as to perform the optimal structural design and to make further improvement on dynamic strength program.

Keywords:

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