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迫击炮弹弹道一致性检验与设计探讨(PDF)

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Title: Discussion on Trajectory Consistency Test and Design for Mortar Shells

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关键词: 迫击炮弹; 弹道一致性; 设计控制; 检验

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摘要: 探讨迫击炮弹弹道一致性检验与设计技术,研究可供参考的设计控制方法。基于弹箭弹道一致性检验原理和方法,阐述了迫击炮弹弹道一致性的理论设计方法。其实质是通过外弹道计算,使两种弹的弹道差小于一致性设计控制限。结合设计实例,以成对交叉检验法为基础,给出了具体的设计控制和检验过程。试验结果表明,所阐述的设计控制方法是有效的,有一定的实用价值。

Abstract: Trajectory consistency test and design techniques for mortar shells were discussed; the referential design control method was researched. Based on projectiles & rockets trajectory consistency test principle and method, trajectory consistency design theory for mortar shells was described. Its essence is ensuring that the trajectory difference between two projectiles is less than the design control limits by exterior ballistics calculation. On the base of cross-validation method, design control and inspection processes were introduced specifically by a design example. The test results show that the design control method is effective and practical.

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