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定向破片拦截下RPG-7类反坦克火箭弹(静态) 毁伤

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Title: Experimental Study of RPG-7(Static)Damage Modes under Directed Fragment Field

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关键词: 反坦克火箭弹; 主动防护系统; 毁伤模式

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摘要: 为优化主动防护系统的性能,文中以静态放置的RPG-7类反坦克火箭弹战斗部为例,对其在密集破片作用下的毁伤模式进行了理论分析,并在典型条件下进行了试验验证。试验结果表明,战斗部结构解体、引信失效、装药被击爆、装药和药型罩被损坏以及装药燃烧等毁伤模式都存在,验证了理论分析的结果。文中的研究结果可为主动防护系统拦截交会参数的选择、拦截弹战斗部破片场参数的优化设计提供有益的参考。

Abstract: To improve the performance of active protection systems(APS), RPG-7 anti-tank rocket warheads were selected as an example, damage modes under directed fragment field were analyzed, and experimental verification under typical condition was carried on. Damage modes include warhead structure breakup, fuze dud, and charge explosion, performance degradation due to charge and liner injured were verified by experiments. The study results may be used for the optimization of interception conditions and parameters of fragment field.

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