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AHEAD弹对导弹目标的毁伤研究

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摘要: 本文建立了AHEAD弹对导弹目标毁伤效能的计算和分析模型。首先分析了AHEAD弹的工作原理和开舱后子弹空间分布规律及速度特征, 然后利用数学方法将离散的子弹云团进行连续化处理, 并研究了云团的运动和变化规律以及目标和云团的交汇过程, 推出了拦截条件, 最后根据目标和子弹云团的具体交汇情况, 结合目标舱段毁伤准则, 得到单发AHEAD弹对导弹目标的毁伤能力。

关键词: 弹药; 易损性; 导弹; 毁伤

中图分类号: TJ41;V47

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A STUDY ON THE DESTRUCTION EFFECT OF THE "AHEAD" PROJECTILE TO A MISSILE TARGET

LiXiangdong ZhangYunfa WeiHuizhi

(School Of Mechanics, Nanjing University Of Science & Technology, Nanjing, 210094)

Abstract: A model to calculate and analyze the damage efficiency of AHEAD projectile to a missile target is established in the paper. The working principle of AHEAD projectile, the spacial distribution of subprojectiles after separation of the shell and velocity characteristics are analyzed. The movement and properties of change of the subprojectiles cloud and the process of encounter of the target and cloud are then studied and the interception condition is deduced. Finally, according to the concrete encounter scene of the target and subprojectiles cloud in conjunction with the damage criteria of target department, the damage efficiency of a single AHEAD projectile to a missile is obtained.

Key Words: ammunition, vulnerablility, missile, damage efficiency

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