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MA Xiaofei,LI Yuan,XU Yuxin,et al.Research on Fragment Impact Initiation of the Charge Covered with a Thin Plate[J].,2009,5:133.

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## 破片对薄盖板装药的冲击起爆研究(PDF)

《弹箭与制导学报》[ISSN:1673-9728/CN:61-1234/TJ] 期数: 2009年第5期 页码: 133 栏目: 弹药技术 出版日期: 2009-10-25

Title: Research on Fragment Impact Initiation of the Charge Covered with a Thin Plate

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关键词: [破片](#); [冲击起爆](#); [薄盖板装药](#); [临界起爆速度](#)

Keywords: [fragment](#); [impact initiation](#); [charge covered with a thin plate](#); [critical initiation speed](#)

分类号: O389;TJ012.4

DOI: -

文献标识码: A

摘要: 研究破片对薄盖板装药的冲击起爆问题。针对压装JH2装药和五种质量圆柱形破片,进行1200~1300m/s速度范围内的冲击起爆试验。在破片冲击裸装药Held临界起爆判据的基础上,推导出破片冲击薄盖板装药临界起爆速度的工程计算模型,模型计算结果与试验结果相吻合。获得了具有工程应用价值的试验数据和推广应用价值计算模型,并分析了盖板所起的作用。

Abstract: The fragment impact initiation of the charge covered with a thin plate was researched. Fragment impact initiation experiments in which impact speed were between 1200m/s and 1300 m/s for JH-2 charge by compression method and five kinds of fragment mass. Based on Held's critical initiation criterion of high speed fragment impacting the bare charge, the model for calculating critical initiation speed was deduced for the charge covered with a thin plate, the calculating results were consistent with experiments. The valuable experiment data and the calculating model were obtained. The usage of a thin plate in fragment impact initiation was analyzed.

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备注/Memo: 收稿日期:2008-10-22基金项目:长江学者和创新团队发展计划资助作者简介:马晓飞(1973-), 男, 湖北人, 博士研究生, 研究方向:目标易损性与毁伤效能评估。

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更新日期/Last Update: 2009-10-25