

[1]王国辉,李向荣,孙正民.主战坦克目标易损性分析与毁伤评估仿真[J].弹箭与制导学报,2009,6:274.

WANG Guohui,LI Xiangrong,SUN Zhengmin.Target Vulnerability Analysis and Damage Assessment of Main Battle Tank[J].,2009,6:274.

[点击复制](#)

## 主战坦克目标易损性分析与毁伤评估仿真(PDF)

《弹箭与制导学报》[ISSN:1673-9728/CN:61-1234/TJ] 期数: 2009年第6期 页码: 274 栏目: 相关技术 出版日期: 2009-12-25

Title: Target Vulnerability Analysis and Damage Assessment of Main Battle Tank

作者: [王国辉](#); [李向荣](#); [孙正民](#)  
装甲兵工程学院, 北京 100072

Author(s): [WANG Guohui](#); [LI Xiangrong](#); [SUN Zhengmin](#)  
The Academic of Armored Force Engineering, Beijing 100072, China

关键词: [目标易损性](#); [主战坦克](#); [毁伤评估](#); [功能毁伤树](#)

Keywords: [target vulnerability](#); [main - battle tank](#); [damage assessment](#); [function damage tree](#)

分类号: TJ811.2

DOI: -

文献标识码: A

摘要: 针对目标易损性分析仿真评估的关键问题,以“性能降低程度”为依据,构建了主战坦克各功能子系统的功能毁伤树图;在弹药对目标毁伤作用原理分析的基础上,建立了典型反坦克弹药对目标毁伤的数学模型,利用VC++平台开发了主战坦克目标易损性分析与毁伤评估仿真系统。以穿甲弹为例进行了主战坦克毁伤评估,得到了主战坦克整体毁伤概率随打击速度、打击方位角等参数的变化规律。研究结果对主战坦克防护结构设计、反坦克弹药设计与威力提高等研究具有一定的指导意义。

Abstract: Aiming to key problems of target vulnerability analysis simulation, according to decrease of measures of performance, functional sub-system damage trees were constructed. Through analyzing terminal damage mechanisms of typical anti-tank ammunition to the target, damage models were established. On the VC++ platform, it developed main-battle tank vulnerability analysis and damage assessment simulation system. Taking armour-piercing ammunition as example, the main battle tank damage assessment was done using above system. Research results are significant to main-battle-tank's defense structure design, anti-tank ammunition design and power increase.

### 参考文献/REFERENCES

- [1] J Terrence Klopocic, Harry L Reed.Historical perspectives on vulnerability/lethality analysis ADA361816 [R] .U.S. Army Research Laboratory, 1999.
- [2] 隋树元, 王树山. 终点效应学 [M] .北京:国防工业出版社, 2000.
- [3] Abell, J M, L K Roach, M W starks.Degraded states vulnerability analysis, BRL - TR - 3010 [R] . U.S. Army

[导航/NAVIGATE](#)

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

[工具/TOOLS](#)

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(126KB\)](#)

[立即打印本文/Print Now](#)

[统计/STATISTICS](#)

[摘要浏览/Viewed](#)

全文下载/Downloads 499

评论/Comments 195

[RSS](#) [XML](#)

Ballistic Research Laboratory, Aberdeen Proving Ground, MD, June 1989.

[4] 李向荣.易损性分析构架与仿真系统初步研究 [D] .北京:北京理工大学机电工程学院, 2001:30 -37.

[5] 王国辉, 杨振军, 王威.车载武器学 [M] .北京:装甲兵工程学院, 2005.

[6] Zook J A. Silsby G F. Terminal ballistics test and analysis guidelines for the penetration mechanics branch, AD - A246922 [R] .Ballistics Research Laboratory Aberdeen Proving Ground, Maryland, 1992.

---

备注/Memo: 收稿日期:2009-02-24作者简介:王国辉 (1966-), 男, 河南赵县人, 副教授, 硕士, 研究方向:武器维修工程。

---