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## 基于实物图片的蒙特卡罗模拟研究(PDF)

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Title: The Research on Monte Carlo Simulation Method Based on Photo

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关键词: 实物图片; 像素点法; 蒙特卡罗模拟; 基本步骤; Matlab应用

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摘要: 针对模拟射击不规则目标的效能评估问题,提出了一种基于目标实物图片进行蒙特卡罗模拟的新方法,该方法通过统计分析射击前后目标实物图像像素点的变化,结合蒙特卡罗方法,计算模拟射击的命中概率。研究了基于实物图片运用像素点法进行效能评估的步骤,并在Matlab软件环境下,通过实例分析进行了仿真验证,仿真结果充分说明了该方法的可行性和便捷性。

Abstract: In view of hit probability calculation of irregular-shaped target, a new method based on the real target object photo was proposed for analyzing the effectiveness by using pixel simulation. The basic steps of the method was studied, and an example was taken to validate the proposed method in Matlab environment, and the simulation results verified the effectiveness and the feasibility of the proposed method.

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