

工程与应用

基于Markov模型的军用码头假目标防御效能分析

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摘要 为了评估设置有假目标的军用码头某目标的抗精确制导武器打击的防御效能, 以马尔可夫链的转移矩阵为基础进行建模仿真计算。此数学模型可以计算摧毁设置有假目标的军用码头某目标需要的精确制导武器的期望数目, 以及假目标个数、来袭精确制导武器数和真目标毁伤概率的关系。并通过计算机实例仿真验证此模型的可行性和有效性, 而且对结果进行了分析。

关键词 [马尔可夫](#) [军用码头](#) [假目标](#) [精确制导武器](#) [防御效能](#)

分类号

Defense effectiveness analysis based on Markov model for fake targets on military dock

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Abstract

To evaluate the defense effectiveness of target around which are fake targets on military dock against the attack of Precision Guided Weapon (PGW), based on transfer probability matrix of the Markov link a simulation model is given in this paper. This mathematics model can calculate the PGW number of destroying a target around which are fake targets on military dock, and can calculate the relations of number of fake target, number of PGW and real target's damage probability. At last feasibility and effectiveness are validated by computer simulation and the result of simulation is analyzed.

Key words [Markov](#) [military dock](#) [fake targets](#) [Precision Guided Weapon \(PGW\)](#) [defense effectiveness](#)

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