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Title: Missile Water Postures Prediction by Cold Launch

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关键词: 冷发射; 出水姿态; 神经网络; 训练; 预测

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摘要: 冷发射方式下导弹出水姿态在各种因素的作用下运动规律难以描述。通过神经网络建模及算法训练,从神经网络结构、学习算法具体步骤及仿真计算流程三个方面进行了详细阐述,建立了这一问题的解决方案。仿真验证表明,这一模型预测的数据准确性高,而且计算方便。其在水中段的弹道计算、潜艇操纵及发射条件制定等方面具有较高的应用价值。

Abstract: A cold launch missile water gesture law of motion is difficult to describe the role of various factors. This problem is solved by the neural network model and algorithm training through aspects of neural networks' structure,learning arithmetic steps and calculation steps.The simulation results show that the model expediently predicts the accute data.This has great value in the water segment of the trajectory calculation, submarines manipulation, and enactment of the launch conditions.

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