



鱼雷武器系统寿命周期费用与效能评估的模糊理想点法

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摘要: 选择优化理论中的理想点法对鱼雷武器系统的寿命周期费用与效能作评估, 同时对于寿命周期费用和效能这2个模糊数, 采用模糊数学中贴近度的概念来估算不同方案的费用和效能与模糊的理想点和负理想点之间的距离。结合实例对4种鱼雷武器系统寿命周期费用与效能进行了评估。结果表明, 这种方法具有实用价值。

关键词: 系统评估与可行性分析; 鱼雷武器系统; 寿命周期费用; 效能; 模糊理想点法; 贴近度

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Fuzzy Ideal Point Method for Estimation of Life Cycle Cost and Effectiveness of Torpedo Weapon Syste

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Abstract: The ideal point method in optimization theory was selected to estimate the life cycle cost and effectiveness for torpedo weapon systems. And, the concept of closeness degree of fuzzy mathematics was used to compute the distance between the life cycle cost/effectiveness and the ideal point/negative ideal point. As examples, four torpedo weapon systems were estimated. The results indicate that this method can be used practically.

Key Words: systematic evaluation and feasibility analysis; torpedo weapon system; life cycle cost; effectiveness

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