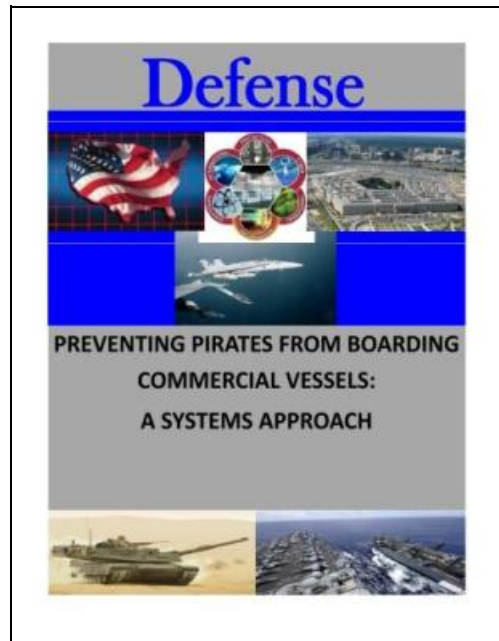# Preventing Pirates from Boarding Commercial Vessels: A Systems Approach

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PREVENTING PIRATES FROM BOARDING COMMERCIAL VESSELS: A SYSTEMS APPROACH

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Createspace, United States, 2014. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Piracy represents a serious threat to modern maritime traffic, causing significant financial losses as well as loss of life. The system s proposed area of operation is the waters of Indonesia, as current antipiracy solutions are not feasible due to the region s unique physical geography. Worldwide deployment is possible with minimal modifications. The systems engineering process was used to identify a system that effectively and economically prevents pirates from boarding commercial vessels. A model of the operational environment was developed in MATLAB to run simulations designed to estimate the relative effectiveness of each assessed countermeasure. A cost analysis was performed on the most effective system configurations to determine economic feasibility; the best-value system was recommended. The results of the project indicated that the P-Trap countermeasure, designed to entangle the pirate s propellers with thin lines, is both effective and economically viable for wide-scale deployment. The further addition of a fire hose system using net projectiles to increase the difficulty of boarders to climb onto the vessel was found to enhance the system effectiveness, while remaining cost-effective.

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