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A Simulation of a Combined Active and Electronic Warfare System for the Defense of a Naval Ship Against Multiple Low-Altitude Missiles Threat

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Abstract: A computer simulation model was developed (interactive Simulation of System Performance, or ISSP) simulating the integrated performance of hard-kill (surface-to-air missile, and close-in weapon system) and soft-kill (defensive jammer, or ECM, and **chaff**) systems in the defense of a single naval ship against attack threat by four anti-ship missiles. The quantitative contribution of each system to ship survivability is evaluated. The hard-kill and soft-kill weapon systems are the focus of the two major anti-air warfare (AAW) improvement plans assessed in this simulation. Based on on these plans, six decision options were created. This study also provides an analysis and comparison of the results of the inner air battle abstracted from various weapon models. Finally, the use of the simulation results in making choices among candidate weapon systems is illustrated. Keywords: Ship defense systems, Naval vessels survivability, Antimissile defense systems, Computerized simulation. Theses. (edc)

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