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On the Integrated Scheduling of Hardkill and Softkill Assets Using Dynamic Programming

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Abstract: The problem of integrated employment of cruise missile defenses by a single ship is considered in this report. Two defensive systems, surface to air missiles and **chaff**, are examined, and a mathematical model of their performance is developed. An optimal scheduling problem is posed using this model, and a dynamic programming solution is developed. The computational complexity of this solution is beyond the capability of current computer facilities, therefore several simplifications are proposed. The study concludes with a discussion of the potential for application of heuristic techniques to this class of optimization problem. Resource allocation, Scheduling, Dynamic programming optimization

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