

A simulation approach to reliability analysis of weapon systems

J. Yáñez Gestoso; M.T. Ortuño Sánchez; B. Vitoriano Villanueva

Abstract-

We report a modeling simulation approach to analyse weapon systems reliability. The introduced functional diagram generalises the logic diagram allowing the replication on the functioning mode of system components. To handle the functional diagram, the availability and connection rules are also introduced. Based on the functional diagram, a simulation model is outlined and a case study, the propulsion system of a Mine Hunter, is included.

Index Terms- Reliability, Simulation, Weapon System

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