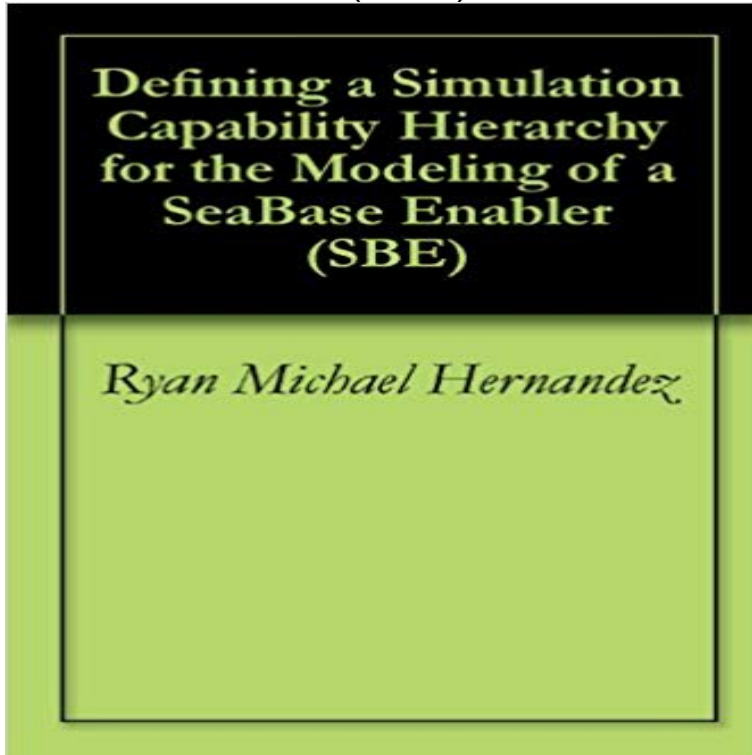


# Defining a Simulation Capability Hierarchy for the Modeling of a SeaBase Enabler (SBE)



Development of SeaBase Operations has brought about the need for Modeling and Simulation (M&S) analysis of prototypes like the Transformable Craft (T-craft) as a SeaBase Enablers (SBE). The uses of M&S tools for the modeling of new capabilities have been problematic, since there are no standard requirements for simulation development. The accreditation process of M&S tools also offers no guidance into the functionalities of simulations. The goal of this thesis was to define a hierarchical framework of capabilities for evaluating a simulation or suite of simulations suitable for modeling SBEs. A capability hierarchy is needed to enable decision makers to compare end user needs with M&S tools abilities. An analysis of alternatives was conducted on six M&S tools to develop a capability hierarchy. The three top level capabilities that were defined in an M&S setting were Usability, Flexibility, and Scalability. A roll-up method was then used to evaluate three time-step and three next-event based models. The end result of the comparisons showed that a suite of simulations was more capable of modeling SBEs than a single simulation. The results provide decision makers with a standard approach to define user needs and how to apply them to M&S tools.

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