

Introduction To Electronic Warfare Modeling And Simulation

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In the modeling of an EW engagement, it is necessary to consider the following elements: The characteristics of the area in which the engagement takes place (the gaming area); The characteristics of the players in the engagement; The way players move and react to each other during the engagement; The point of view from which the engagement is to be observed; The fidelity to which the engagement must be controlled; The electronic interactions between the players in the engagement; When to ...

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In EW simulation, we model the performance characteristics of hardware, systems, and platforms. We also model engagements between platforms (for example, an enemy aircraft and a friendly aircraft or ship) and between systems (for example, an enemy radar and a friendly jammer).

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The big picture relates to EW modeling and simulation as follows: f10 Introduction to Electronic Warfare Modeling and Simulation An EW model might include an enemy and friendly asset laydown along with a set of required responses of both enemy and friendly assets to actions by the other side.

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This unique, new book covers the whole field of electronic warfare modeling and simulation at a systems level, including chapters that describe basic electronic warfare (EW) concepts. Written by a well-known expert in the field with more than 24 years of experience, the book explores EW applications and techniques and the radio frequency spectrum, with primary emphasis on HF (high frequency) to microwave.

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You will be introduced to the three "pillars" of EW: Electronic Attack (EA) systems, Electronic Protection (EP) techniques, and Electronic Support (ES). An EW engagement model will be developed to illustrate the interaction between radar and jamming signals and the impact in radar detection and tracking. In addition, several EA techniques will be introduced and modeled, and the effects of radar performance will be explored.

~~Basic Electronic Warfare Modeling—GTPE~~

Electronic warfare (EW) simulation is a serious game of make-believe. A situation is artificially created so that equipment can be tested and operators can be trained under realistic conditions - without both the expense and danger associated with training in the real world.