

可靠性

装备保障对象系统任务持续性模型研究

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摘要:

任务持续性是装备保障对象系统在规定的任务时间内和规定的保障条件下能够连续执行训练和作战任务的能力, 评估保障对象系统的任务持续性对于评估装备保障系统的保障能力具有重要意义。选取任务可靠度作为装备保障对象系统的任务持续性评估参数, 研究了装备保障对象分别为装备、基本作战单元和作战单元时任务可靠度的建模方法, 建立了考虑维修保障和备件补充的不同层次装备保障对象系统的任务可靠度模型。算例分析表明了该模型的实用性和有效性。

关键词: 可靠性 装备综合保障 装备保障对象 任务持续

Mission sustainability model of equipment support object systems

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Abstract:

Mission sustainability is the ability of an equipment support object system to continuously execute training and campaign mission in fixed time under given support conditions. Evaluating the mission sustainability of combat units has important meaning for evaluating the supportability of a support system. Mission reliability is selected as an evaluating parameter of the mission sustainability, researches the modeling method of mission reliability when the equipment support object system is single equipment, a basic combat unit and combat unit respectively, and establishes the mission reliability model of different levels of equipment support object systems considering maintenance support and spares supplement. The example shows that the proposed model is feasible and efficient.

Keywords: reliability equipment integrated support equipment support object mission sustainability

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