



基于PHM的军机备件配置机制

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Allocation mechanism of military aircraft spares based on PHM

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摘要 现有的军机备件配置模型不能满足预测与健康管理(PHM,Prognostics and Health Management)技术支持下的军机备件配置.分析了军机备件需求产生过程及现有军机备件预测配置机制,并在构建军机PHM体系基础上,分析了PHM技术对军机备件配置的影响,得出了PHM技术支持下的备件配置模式,最后运用PHM系统的预测构建了基层级备件配置机制框架;运用后方基地自动化后勤信息系统及虚拟库存理论构建了后方基地备件配置机制框架;运用信息共享理论构建了联合共享备件配置机制框架.该配置机制能够为PHM技术逐渐应用于军机提供备件配置方面指导性和可操作性的参考.

关键词: PHM 备件 备件配置机制

Abstract: The existing allocation model of military aircraft spares can't meet the allocation of military aircraft spares based on prognostics and health management (PHM). First,the generation process of military aircraft spares demand and the existing allocation model of military aircraft spares were formulated. And on the base of under-built PHM system, analyses the effects of PHM on military aircraft spares allocation were analysed. Then, the spares allocation mode based on PHM was given. Last, the organizational-level spares allocation mechanism frame was built by use of the PHM system, the rear sustaining support base spares allocation mechanism frame was built by use of the automatic logistics information system and virtual inventory theory, and the information share theory was used to build the unite pooling spares allocation mechanism frame. This allocation mechanism can provide guidable and executive reference of spares allocation for the PHM technology gradually being applied on military aircrafts.

Keywords: prognostics and health management(PHM) spare spare allocation mechanism

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