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航空装备的完整性

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摘要

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摘要 简述完整性概念在航空装备上的应用情况,提出了航空装备完整性概念,并简介了航空装备的完整性原理,

关键词:

Abstract: The term "integrity" has been used as a quality characteristic of main aircraft equipment in the past two decades. It was applied to aircraft structures first, and then to engine structures and avionics. On the basis of this fact, the author is putting forward the term "aircraft equipment integrity". Both USAF's aircraft structural integrity program and engine structural integrity program use durability and damage tolerance design as the integrity technique, while USAF's avionics integrity program (AVIP) uses eight main integrity techniques in design phase, namely: piece parts selection, parts derating, parts burn-in, environmental stress screen, failure prediction analysis, computer aided design, testability and design reviews. These integrity techniques for aircraft structures, engine structures and avionics are briefly described in this paper.

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