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用“人-机工程”思想进行产品设计的尝试—歼××型飞机阻力伞系统的“防错设计”

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AN ATTAINT TO ADOPT THE IDEA OF "ERGONOMICS IN DESIGNING PRODUCTS--"ANTI-MISOPERATION" DESIGN OF THE DRAG CHUTE SYSTEM FOR F-XX AIRCRAFT

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摘要

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摘要 通过对飞机阻力伞系统外场使用中故障和事故的分析,用“人-机工程”思想进行了一系列的“防错设计”。经过对“故障树”的分析,说明该系统故障率大幅度下降,大大提高了系统的安全性。容错性和可靠性。使用实践也证明该设计减少和防止了飞行中的很多故障及严重事故。

关键词:

Abstract: This article points out that human can not avoid misoperations and puts forward an idea that the human factor and machine should be taken into account together in design. Through analysing defects and accidents occurred in operation, the writer has put forward and performed a series of new "Anti-Misoperation disigns". Studying the "defect trees" we find out that the rate of defect, in this system has decreased considerably and the safety, misoperation compatibility and reliablity have increased greatly. It has deen proved in practice that this design can reduce and avoid a lot of defects and dangers in flight.

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