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## 数字式电传飞行控制系统的余度重构管理策略

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### A RECONFIGURABLE REDUNDANCY MANAGEMENT STRATEGY FOR A TRIPLEX DFBW SYSTEM

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摘要

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**摘要** 本文论述了三余度数字式电传飞行控制系统的余度重构管理策略,包括对重构管理提出的合宜指标、各次故障的余度重构和控制律重构的设计原理及其验证结果。此外,概述了重构管理软件的设计和实时可行性问题。

**关键词:**

**Abstract:** A reconfigurable redundancy management strategy for a triplex DFBW flight control system is discussed in this paper. The strategy consists of redundancy and control law reconfiguration after 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> failures. Every part of the system uses both the comparison monitored and the self-tested schemes. With the combination of two monitors schemes the functional range of reconfigurable strategy can be expanded, and high system reliability can be achieved. The computer verification results for reconfigurable strategy are presented. The reconfigurable management software has been designed, and the architectures for all of software moduls and its interfaces are introduced. It has been shown that the key factor impact on feasibility of the strategy is the data transmitted rate, especially the across-channel data transmitted rate.

**Keywords:**

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