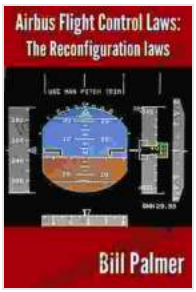
Airbus Flight Control Laws: The Reconfiguration Laws

Airbus flight control laws are a set of rules that govern the behavior of the aircraft's flight control system. These laws are designed to ensure that the aircraft is safe and easy to fly, even in the event of a failure of one or more of the aircraft's systems. One of the most important sets of flight control laws are the reconfiguration laws.



Airbus Flight Control Laws: The Reconfiguration Laws

by Bill Palmer

4.7 out of 5

Language	: English
File size	: 523 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 32 pages
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Reconfiguration Laws

Reconfiguration laws are designed to automatically reconfigure the flight control system in the event of a failure of one or more of the aircraft's systems. This ensures that the aircraft remains safe and controllable, even in the event of a major system failure.

There are two main types of reconfiguration laws:

* **Normal reconfiguration laws** are designed to reconfigure the flight control system in the event of a minor system failure. These laws are typically used to reconfigure the system to a degraded mode of operation, which may result in some loss of functionality but will not affect the safety of the aircraft. * **Emergency reconfiguration laws** are designed to reconfigure the flight control system in the event of a major system failure. These laws are typically used to reconfigure the system to a safe mode of operation, which may result in a significant loss of functionality but will ensure that the aircraft remains controllable.

Reconfiguration Law Design

Reconfiguration laws are designed to be as simple and reliable as possible. This is because they must be able to operate correctly even in the event of a major system failure. Reconfiguration laws are typically implemented using a combination of hardware and software.

The hardware component of a reconfiguration law is typically a set of logic gates that are used to implement the law's logic. The software component of a reconfiguration law is typically a set of computer programs that are used to monitor the aircraft's systems and to activate the law when necessary.

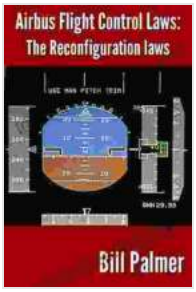
Reconfiguration Law Testing

Reconfiguration laws are extensively tested before they are put into service. This testing is typically performed using a combination of simulation and flight testing.

Simulation testing is used to verify the correct operation of the reconfiguration law in a variety of scenarios. Flight testing is used to verify

the correct operation of the reconfiguration law in real-world conditions.

Reconfiguration laws are an essential part of Airbus flight control systems. These laws ensure that the aircraft remains safe and controllable, even in the event of a major system failure. Reconfiguration laws are designed to be simple and reliable, and they are extensively tested before they are put into service.



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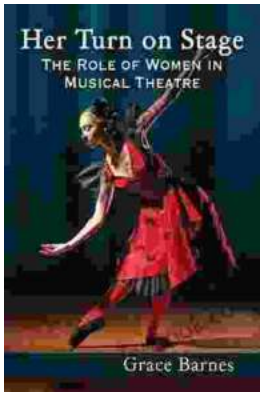

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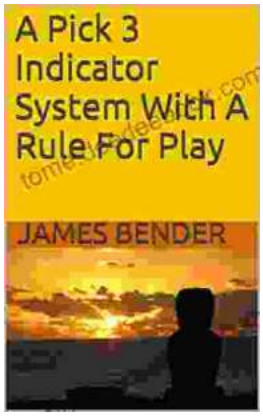

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