Wright

Aviation Safety and Security

Utilizing Technology to Prevent Aircraft Fatality

This book focuses on ways to better manage and prevent aircraft-based homicide events while in flight using alternate technology to replace the Cockpit Voice Recorder (CVR) and/or Digital Flight Data Recorder (DFDR) functions. While these events are infrequent, the implementation of real-time predictive maintenance allows aircraft operators to better manage both scheduled and unscheduled maintenance events. Aviation Safety and Security: Utilizing Technology to Prevent Aircraft Fatality explores historical events of in-flight homicide and includes relevant accident case study excerpts from the National Transportation Safety Board (NTSB) and Air Accidents Investigation Branch (AAIB). FEATURES - Explores historical events of in-flight homicide and offers solutions for ways to mitigate risk - Explains how alternate technologies can be implemented to address in-flight safety issues - Demonstrates that metrics for change are not solely for safety but also for financial savings for aircraft operation - Includes relevant accident case study excerpts from the NTSB and AAIB - Expresses the need for real-time predictive maintenance Stephen J Wright is an academic Professor at the faculty of Engineering and Natural Sciences at Tampere University, Finland, specializing in aviation, aeronautical engineering, and aircraft systems.

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