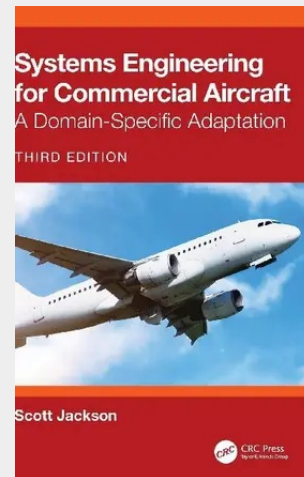


Systems Engineering for Commercial Aircraft

A Domain-Specific Adaptation

Systems-engineered aircraft are designed to transport passengers safely, ensuring all components work together seamlessly. This book explores the concept of aircraft as a complex system, including humans, with safety as a crucial aspect. By prioritizing safety and quality, fewer fatalities can be achieved, leading to efficient, reliable, and safe aircraft for passengers and crew. Systems Engineering for Commercial Aircraft: A Domain-Specific Adaptation, Third Edition focuses on Deming's definition of quality, its methods, and the benefits it brings, which were not covered in the previous edition. The Risk chapter will also be expanded to include discussions on Risk Denial, its consequences, and strategies to avoid it. A detailed examination of resilience will be provided, highlighting how it enables an aircraft to prevent, endure, and recover from disruptions such as bird strikes. The book will explore the proactive and reactive aspects of resilience, how a system, like an aircraft, can be defined by its functions, and how an aircraft's design should prioritize the needs of various stakeholders, including passengers, regulatory agencies, and other relevant parties. The primary audience for this book consists of major aircraft companies engaged in advanced design, aeronautical engineers, and systems engineers.

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