



# Commercial Aviation Safety, 5th Edition (Mechanical Engineering)

By Clarence C. Rodrigues, Stephen K. Cusick

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## A Complete, Fully Updated Guide to COMMERCIAL AVIATION SAFETY

Presenting the latest procedures and standards from U.S. and international air traffic and regulatory agencies, this extensively revised resource covers the entire commercial aviation safety system--from human factors to accident investigation. The introduction of Safety Management Systems (SMS) principles by the International Civil Aviation Organization (ICAO) is discussed in detail.

*Commercial Aviation Safety, Fifth Edition* delivers authoritative information on today's security concerns on the ground and in the air, changes in systems and regulations, new maintenance and flight technologies, and recent accident statistics. This is the most comprehensive, current, and systematic reference on the principles and practices of commercial aviation safety and security.

### COVERAGE INCLUDES:

- Regulatory information on ICAO, FAA, EPA, TSA, and OSHA
- NTSB and ICAO accident investigation processes
- Recording and reporting of safety data
- U.S. and international aviation accident statistics
- Accident causation models
- The Human Factors Analysis and Classification System (HFACS)
- Aircraft and air traffic control technologies and safety systems
- Airport safety, including runway incursions
- Aviation security, including the 9-11 Commission recommendations
- International and U.S. Airline Safety Management Systems
- Aviation Safety Management Systems



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### **About the Author**

**Clarence C. Rodrigues, Ph.D.**, is currently the Health Safety Environment (HSE) manager for the Petroleum Institute (part of Abu Dhabi National Oil Company - ADNOC) in Abu Dhabi. He was previously a tenured, full professor in the college of aviation and the program chair for the BS in Safety Sciences degree at Embry-Riddle Aeronautical University (ERAU) in Daytona Beach, Florida.

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