



Aircraft Basic Science, Eighth Edition (Aviation)

By Michael Kroes, James Rardon, Michael Nolan

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Learn the latest technologies needed to pass the FAA airframe and powerplant maintenance certification!

Aircraft Basic Science, Eighth Edition, is a valuable resource for students of aviation technology that provides updated information needed to prepare for an FAA airframe and powerplant maintenance certification. This expanded edition includes recent advances in technology, such as the use of composite aircraft materials, with revised examples and figures to more accurately reflect the state of the industry.

For easy reference, chapters are illustrated and present specific aspects of aircraft materials, fabrication processes, maintenance tools, and federal aviation regulations.

This updated edition includes:

- The use, inspection, and fabrication of composite structures, including honeycomb, fiberglass, and carbon fiber materials
- 4-page full-color insert
- Hypersonic flight aerodynamics as they apply to high-speed aircraft and space reentry vehicles
- Tilt rotor aircraft aerodynamics and design
- New alloys and processes used in aircraft such as powered aluminum and friction stir welding
- Relevant ICAO/EASA (European and international) rules and regulations including maintenance and repair organizations (MROs), the NASA safety reporting system, ATA systems, the electronic document retrieval system, and recordkeeping systems
- Ground handling and safety for large, airline-style aircraft
- New alternative fuels under development including bio and other synthetic fuels
- FAA Airframe and Powerplant certification requirements needed to perform and approve aircraft maintenance

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Editorial Review

About the Author

Michael Kroes is an aviation practitioner and educator and has more than 35 years of experience in the field. He holds or has held several FAA certifications, including an Airframe & Powerplant Certificate, Inspection Authorization, Designated Mechanic Examiner, Designated Engineering Authority, and a Commercial Pilot's License. Professor Kroes has worked for some of the top aviation companies, including Raytheon and Allied Signal, and spent 25 years as a professor and Department Head at Purdue University. Recognized as a leading expert on FAA technician certification, he authored a comprehensive study funded by the FAA. This study was used to develop new FAA technician certification content and guidelines.

Michael S. Nolan is a professor at Purdue University and has taught there since 1978. He was responsible for the development of new A.S. and B.S. degree programs that now provide educational opportunities for students seeking to study aviation management and air traffic control. This program became one of only thirteen degree granting programs in the United States approved by the FAA as a Collegiate Training Initiative program for air traffic controllers.

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