



Aircraft Basic Science, Eighth Edition

Michael Kroes, James Rardon, Michael Nolan

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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
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- 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
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