



Aircraft Basic Science (Seventh Edition)

By James Rardon, Michael Kroes

Tata McGraw-Hill Education Pvt. Ltd., 2010. Softcover. Book Condition: New. 5th or later edition. The material in this text is designed primarily as a resource for students of aviation technology who are preparing for FAA aircraft and powerplant maintenance certification. The text begins with a review of practical mathematics and a general presentation of the underlying principles of physics. The extensively revised chapter on aerodynamics provides students with a conceptual understanding of the mathematics and physics of flight. Chapters are well illustrated and present specific aspects of aircraft materials, fabrication processes, maintenance tools and techniques, and federal aviation regulations. This updated edition is consistent with FAA regulations and procedures. Table of contents Preface Acknowledgements 1. Fundamentals of Mathematics 2. Science Fundamentals 3. Basic Aerodynamics 4. Airfoils and Their Applications 5. Aircraft in Flight 6. Aircraft Drawings 7. Weight and Balance 8. Aircraft Materials 9. Metal Fabrication Techniques and Processes 10. Standard Aircraft Hardware 11. Hand Tools and Their Application 12. Aircraft Fluid Lines and Fittings 13. Federal Aviation Regulations 14. Technical Publications 15. Ground Handling and Safety 16. Aircraft Inspection and Servicing Appendix Glossary Index Printed Pages: 448.



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