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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 *Reference Materials and Subject Matter Knowledge Codes for Airman Knowledge Testing, Advisory Circular, AC No. 60-25C, August 23, 1999* ,1999 **Aircraft Basic Science** Ralph D. Bent,James L. McKinley,1980 **Aircraft Basic Science** Northrop Institute of Technology,1953 *Aviation Correlation Guide* ,1995 *McGraw-Hill Concise Encyclopedia of Science and Technology, Sixth Edition* McGraw-Hill Education,2009-06-10

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