



# Elements of Propulsion: Gas Turbines and Rockets, Second Edition (Aiaa Education)

By Jack D. Mattingly and Keith M. Boyer



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*Elements of Propulsion: Gas Turbines and Rockets, Second Edition* provides a complete introduction to gas turbine and rocket propulsion for aerospace and mechanical engineers. Textbook coverage has been revised and expanded, including a new chapter on compressible flow. Design concepts are introduced early and integrated throughout. Written with extensive student input, the book builds upon definitions and gradually develops the thermodynamics, gas dynamics, rocket engine analysis, and gas turbine engine principles.

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## **Editorial Review**

### **Review**

Both authors spent many years teaching and developing courses for the Department of Aeronautics (DFAN) at the United States Air Force Academy in Colorado Springs, CO. This book had its beginnings in DFAN in the early 1980s and has been a mainstay of its propulsion curriculum. We are grateful for the authors continued affiliation and support of Academy programs as well as their longtime friendship! --Brig. Gen. D. Neal Barlow, USAF (ret.), DFAN Permanent Professor and Head, 2000-2015; Dean of the College of Engineering and Applied Sciences, Arkansas Tech University

### **About the Author**

**JACK D. MATTINGLY** has 50 years experience analyzing and designing propulsion and thermodynamic systems. After serving the majority of his career teaching at the Air Force Academy and Air Force Institute of Technology he retired from active duty in 1989 and joined the faculty of Seattle University, retiring in 2000 as professor emeritus in Mechanical Engineering. He has since focused on writing, teaching short courses, and consulting. He is a co-author of *Aircraft Engine Design*, winner of the AIAA Summerfield Book Award.

**KEITH M. BOYER** is Vice President for Propulsion for Practical Aeronautics, Inc., retiring from the U.S. Air Force in 2012 after 32 years of active-duty service. He has 35 years experience including flight line and back shop maintenance and engine expertise in research and development, test and analysis, sustainment, systems engineering, logistics, supply chain, and multinational requirements management. He served on the faculty for 10 years in the Air Force Academy's Department of Aeronautics, was Associate Dean for Students at the Air Force Institute of Technology, and was an adjunct faculty member for the Air Force Test Pilot School.

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