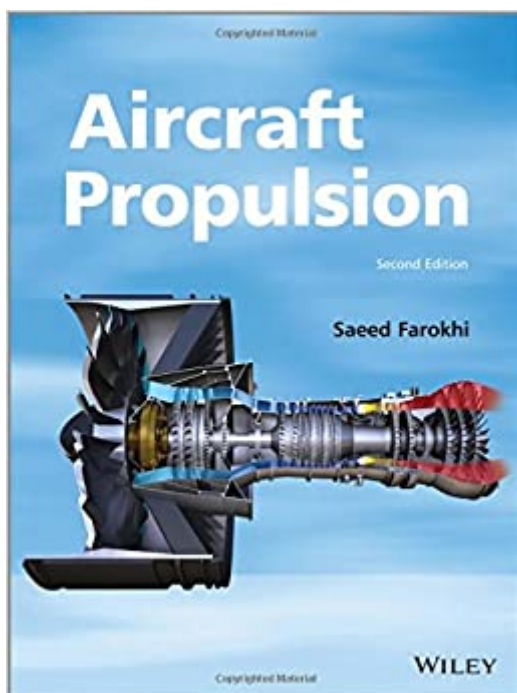


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# Aircraft Propulsion



## Synopsis

New edition of the successful textbook updated to include new material on UAVs, design guidelines in aircraft engine component systems and additional end of chapter problems Aircraft Propulsion, Second Edition follows the successful first edition textbook with comprehensive treatment of the subjects in airbreathing propulsion, from the basic principles to more advanced treatments in engine components and system integration. This new edition has been extensively updated to include a number of new and important topics. A chapter is now included on General Aviation and Uninhabited Aerial Vehicle (UAV) Propulsion Systems that includes a discussion on electric and hybrid propulsion. Propeller theory is added to the presentation of turboprop engines. A new section in cycle analysis treats Ultra-High Bypass (UHB) and Geared Turbofan engines. New material on drop-in biofuels and design for sustainability is added to reflect the FAA's 2025 Vision. In addition, the design guidelines in aircraft engine components are expanded to make the book user friendly for engine designers. Extensive review material and derivations are included to help the reader navigate through the subject with ease. Key features: General Aviation and UAV Propulsion Systems are presented in a new chapter Discusses Ultra-High Bypass and Geared Turbofan engines Presents alternative drop-in jet fuels Expands on engine components' design guidelines The end-of-chapter problem sets have been increased by nearly 50% and solutions are available on a companion website Presents a new section on engine performance testing and instrumentation Includes a new 10-Minute Quiz appendix (with 45 quizzes) that can be used as a continuous assessment and improvement tool in teaching/learning propulsion principles and concepts Includes a new appendix on Rules of Thumb and Trends in aircraft propulsion Aircraft Propulsion, Second Edition is a must-have textbook for graduate and undergraduate students, and is also an excellent source of information for researchers and practitioners in the aerospace and power industry.

## Book Information

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## Customer Reviews

“Aircraft Propulsion, Second Edition is a must-have textbook for graduate and undergraduate students, and is also an excellent source of information for researchers and practitioners in the aerospace and power industry.” (Expofairs.com, 21 April 2015) “This is an excellent resource for anyone intending to use this as a teaching text. In summary an excellent and extremely comprehensive teaching text for gas turbine propulsion systems with introductions to other forms of aircraft propulsion.” (The Aeronautical Journal, 1 April 2015)

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- General Aviation and UAV Propulsion Systems are presented in a new chapter
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- Presents alternative drop-in jet fuels
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researchers and practitioners in the aerospace and power industry.

If you have to buy only one book on the subject of modern aircraft propulsion system design as a senior-level engineering student, a graduate engineering student, or a practicing aerospace/aeronautical/mechanical engineer, then the second edition of this book will be money very well spent. In terms of subject organization and clarity, material coverage and examples, I think this is one of the best books on the market, as of the date of this review. If you have the liberty to spend a little more on books on a similar topic, then the other two books I recommend would be Gas Turbine Theory, 6th edition, by authors Saravanamuttoo, Rogers, Cohen and Straznicky, and Elements of Propulsion: Gas Turbines and Rockets by Mattingly and von Ohain. Excellent book and kudos to Dr. Farokhi.

One of my favorite books. It has everything you need in it. From a Thermodynamics Review, to an extremely detailed example. I have used this book for one of my class in school. Highly recommend the book.

The books has awesome explanation and theory, but the examples have errores in them so people gotta be careful

Very good book, covers a lot of material

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Excellent

Excellent book!

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