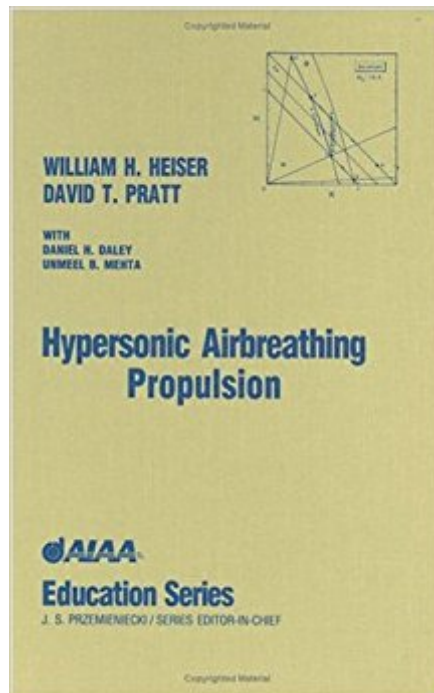




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Hypersonic Airbreathing Propulsion (AIAA Education)



Synopsis

Winner of the Summerfield Book Award. The next great leap for jet propulsion will be to power-sustained, efficient flight through the atmosphere.

Book Information

Series: AIAA Education

Hardcover: 594 pages

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Average Customer Review: 4.5 out of 5 stars 4 customer reviews

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Customer Reviews

First, I would like to compliment the shipper who sold me the book, which was in very good unused condition. The book is rated as one of the best if not the best fundamental book on hypersonic propulsion. It flows well by giving a basic understanding of high speed flight and then slowly works into a more detailed description. The book does a great job outlining assumptions to hypersonic flight and reviews physics behind high speed flight and even briefly outlines some fundamental concepts as they apply to kinetic theory.

This is a good book: easy to understand and apply. However, some changes are in order. In the Special Topics section, a table presents the thermal stresses and thermal durability of several materials--without specifying the temperature and pressure for the materials. As material properties change drastically at high temperatures, such tables are incomplete without the above information. I hesitated in using the information in my design report, and asked my materials and manufacturing professor about it as well. He agreed that this information must be provided for the table to be of any use. It would also help if you specify the units after presenting an equation. Yes, we can figure it out,

but try sitting on your behind for hours on end and having to stop every so often in your design to figure out the units for an equation! Colorful language flows like anything!

An extremely well-written, clear overview of scramjet engines. The authors do a remarkable job presenting the information in an understandable manner. The book performs a one-dimensional analysis aimed at giving the reader an "engineering intuition" of the topic, without introducing the complexities that arise in a three-dimensional analysis. While the book is self-contained, an undergraduate-level understanding of thermodynamics and supersonic flow makes the read easier.

A clearly-written, logically-organized overview of aircraft jet engine design including thermodynamics, cycle analysis, and component design and evaluation. Includes an overview of how jet engine design fits into the overall process of aircraft design.

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