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Hypersonic And High Temperature Gas Dynamics



Synopsis

Written by best-selling author, John D. Anderson, Jr., this book covers the subject of sustained hypersonic flight, the technology behind the Space Shuttle and other high speed flight vehicles. Anderson's book offers timely and up-to-date information on hypersonic flow—an area that has grown explosively in the last decade.

Book Information

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Customer Reviews

"John Anderson's books are consistently well written. It's an excellent book I'll keep for years to come." --This text refers to an out of print or unavailable edition of this title.

Dr. John Anderson, Jr. received his Ph.D. in Aeronautical and Astronautical Engineering in 1966 from the Ohio State University. Dr. Anderson served as professor of Aerospace Engineering at the University of Maryland where he became the Glenn L. Martin Distinguished Professor for Education in Aerospace Engineering. He is an Honorary Fellow of AIAA and a Fellow of the Royal Aeronautical Society. Among his numerous accomplishments, he was awarded the AIAA Pendray Aerospace Literature Award "for writing textbooks in aerospace engineering which have received worldwide acclaim." In 1999 he retired from the University of Maryland and was appointed Professor Emeritus. He is currently the Curator for Aerodynamics at the National Air and Space Museum. --This text refers to an out of print or unavailable edition of this title.

This is my favorite Anderson text, next to Modern Compressible Flow and Computational Fluid Dynamics. Both are 5 star texts. There are a surprising amount of typos in the text. Just be careful. I found them because I parsed the text carefully during my outlines of the chapter material. You find about 1-2 typos per chapter. Looking at it in front of me, it's a beast. I did not formally cover the first 445 pages of Hypersonics but I did cover the last half of the book while studying High-Temperature Gas Dynamics. The high-temp sections offer a very good roadmap for learning. All of the topics are brought together very well during this portion of the text. The information on Hypersonics appeared exhaustive. If it is recommended for hypersonics, I would get it. It covers inviscid AND viscous hypersonic flow in parts 1 and 2. Part 3 is high-temp. This is an excellent INTRODUCTORY text for graduate level students. The author does recommend many texts that will allow the reader to delve further into the subject matter.

A subject that continues to be a focus of Aeronautical Engineering research by the finest author of my generation. A reasonably priced classic.

great

Another great book by Anderson. Very clear and concise. The binding always falls apart on these AIAA published books though.

This book in conjunction with Anderson's "Modern Compressible Flow with Historical Perspective" will give you an excellent fundamental background in high temp gas dynamics. I think the third section alone of this book (which introduces statistical mechanics, kinetic theory, chemically reacting flows, equilibrium and nonequilibrium flows) is worth the price.

I just finished reading an old edition, which is late 80's and it's incredible, I can't wait to get this new edition. If you like aerodynamics and are interested in space re-entry vehicles, for sure you should have this book in your personal library.

While this description refers to an out of print edition by McGraw-Hill, the book has been republished by the American Institute of Aeronautics and Astronautics (AIAA) with the ISBN 156347459X.

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