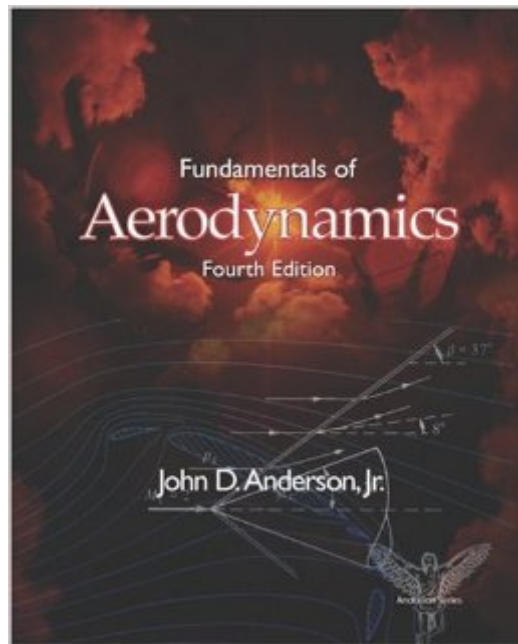


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# Fundamentals Of Aerodynamics (Mcgraw-Hill Series In Aeronautical And Aerospace Engineering)





## Synopsis

In keeping with its bestselling previous editions, *Fundamentals of Aerodynamics*, fourth edition, offers the most readable, interesting, and up-to-date overview of aerodynamics to be found in any text. The classic organization of the text has been preserved, with new standalone viscous flow sections at the end of various chapters to conceptualize the coverage of this topic in part 4, and complement discussion of fundamental principles in part 1, inviscid incompressible flow in part 2, and inviscid compressible flow in part 3. Historical topics, carefully developed examples, numerous illustrations, and a wide selection of chapter problems are found throughout the text to motivate and challenge students of aerodynamics.

## Book Information

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## Customer Reviews

I was not looking forward to going into AE 202 (Low Speed Aerodynamics) at Georgia Tech. I was expecting hard work and confusion and, at first, that's exactly what I got. I was completely lost; that is until I started reading this book more carefully. I was scared going into the first test, but I started studying and re-reading the first few sections, and everything became as clear as day. I went through the same process for the second test, and by the final I felt like I was a master of incompressible flow, entirely thanks to this book. Make no mistake, though, this book covers flows in the entire range of Mach numbers. I skimmed through chapters on supersonic and even hypersonic flow, and I was more than impressed. The book explains the fundamental science behind fluid flow,



as well as applications to aerospace vehicles. While my professor went away from this book to treat viscous flows, I found these chapters to be more than helpful. Since it is just an introductory book, it only treats a subset of flow solutions, like Couette flow and Blasius solutions, but it does provide enough references to guide you towards more advanced concepts. Because of this book, I now have a keen interest in aerodynamics. I highly recommend it for any aerospace or mechanical engineer, or any scientific mind who want to learn more about the fundamentals of fluid flow.

This excellent book is full of examples and equations to help students relate to the fundamental concepts in an introductory aerodynamics class. The book is especially useful for reference, as it explains the derivations and many forms of complex equations such as the continuity equation. Furthermore, there are lots of examples of real-world design situations and historical backgrounds. Overall, one of the best books I have used in my undergraduate aerospace engineering curriculum.

Great book for first and second semester aerodynamics. Especially the sections on supersonics and hypersonics. Links the technical and historical aspects of aerodynamics to give a very good global perspective of the subject. Anderson also provides "roadmaps" which tend to help the reader stay on track as to where the discussion is going. Those are especially helpful for technical books such as this one.

This book is one of the best written books I have. This book is well-organized, clearly written and easily understood. Each chapter contains a road map to keep the reader well aware of the proper flow of ideas and concepts.

Over 5 years as an aerospace engineer at Boeing and Lockheed Martin, I have used this book far more than any other for aeronautics. This is not only a good textbook, but an excellent reference, and one of the few technical books I have found worth reading cover-to-cover. Many engineers simply say "look at Anderson" to find whatever answers you need.

Dr. Anderson's book is an excellent tool if you'd like to teach yourself aerodynamics and have the background in math to handle it (multivariable and vector calculus...get "Div, Grad, Curl, and All That" if you need a refresher). His derivations are very clear and his chapter maps provide a nice road guide to give you an idea of where you're going. This book is also very good at maintaining



rigor in describing the limitations of the derivations, a necessary quality since a lot of us tend to forget that the results we see are only valid in certain circumstances (incompressible flow, irrotational flow, inviscid flow, etc.). Very few downsides: a few typos and no answers to end-of-the-chapter problems.

This is by far the best textbook I had on any subject of my aerospace eng. undergrad degree. Presentation of concepts is concise and examples are clear and easy to follow. The text is enriched by the inclusion of design boxes which explain a few key areas in the design of various interesting aircraft. If you don't like your textbook for whatever reason, don't hesitate to get this one and it'll certainly help you understand this subject well.

This is probably as good as it gets when it comes to aerospace reading material. Very easy to read and understand. This book is very well organized, and helps you to understand the relevance of each topic. It takes you by the hand and nicely walks you through complicated concepts like it wasn't rocket science.

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