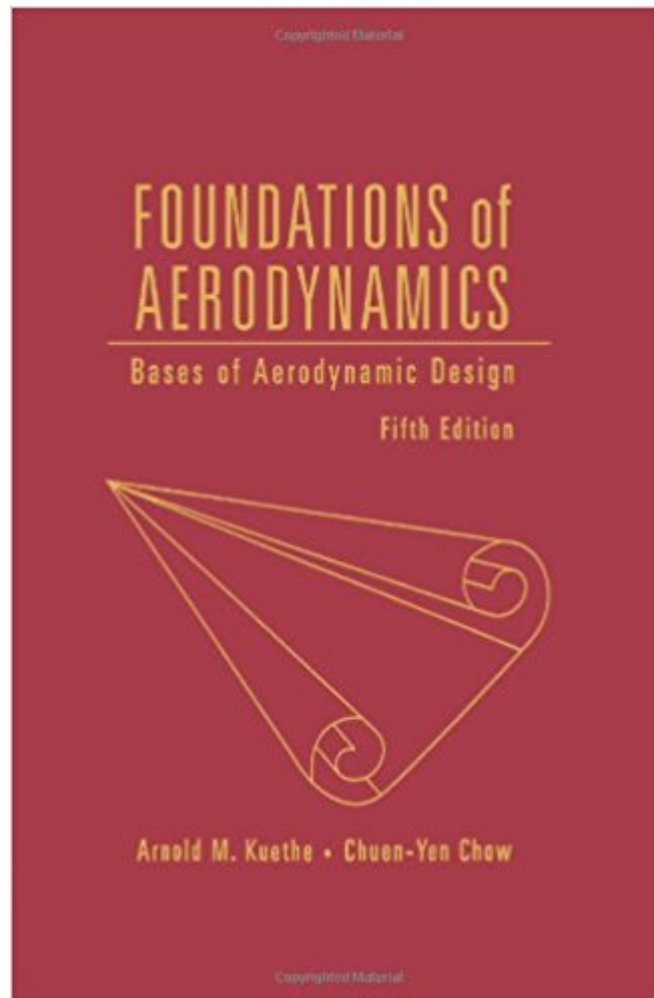




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Foundations Of Aerodynamics: Bases Of Aerodynamic Design



Synopsis

Like previous editions, this text has retained its excellent coverage of basic concepts and broad coverage of the major aspects of aerodynamics. Numerical techniques are described for computing inviscid incompressible flow about airfoils and finite wings. Plus, the design of devices and aircraft components that were constructed from theoretical considerations are shown so readers can see the realistic applications of mathematical analyses.

Book Information

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Customer Reviews

Five stars simply because it is the kind of book you'll hold on to for reference if you're an aerospace engineering student. The most helpful parts are the tables and formulas, which are thorough and clear.

My aerodynamics professor said even though this older version book, it is not afraid to talk about hard to explain subjects.

This is dismal. My class quickly figured out that this is trash and we all bought John Anderson Jr's Aero books instead. Equations and examples are very poorly derived, there isn't enough study material.

This book discusses more the theory of fluid flow versus the applications of fluid dynamics. I found

the derivations to be poorly explained as well as the assumptions used for said derivations. I would recommend this book more towards Math majors interested in fluid dynamics instead of engineering majors because the mathematics required to derive the equations used are typically not taught to standard engineering students.

A well written introductory book on aerodynamics . Advanced printing technology also adds to the book`s qualities .However , this is not the book for someone who wants to excel at aerodynamics .Like other more recent books ,It aims for medicore level.For example, there are no expansions of advanced topics for the curious student.Also a subject of practical and historical importance like complex potential & conformal mapping is omitted. Summary : If you are new to Fluid Dynamics ,buy it .If you intend to be a real scientist ,you should look for Karamcheti for the incompressible part ,and Shapiro for the compressible part.

This book is one of the best written ones. It covers everything. I own the 1986 edition. It contains everything you need to understand the nature of the fluid flow past a body.It covers airfoils, finite wing, compressible and incompressible flows, shock waves, boundary layers, turbulence. It doesn't mention complex variable methods and Joukowski transformation, it is true, but it does a very good job in the other tasks. Personally, I think everyone involved in aerodynamics should own it. It is a good introductory to mid-level book as a reference one.

Although this book leaves out a lot of the derivation material for the equation of continuity and the Gauss Theorem of Divergence, it gets the point across. There isn't a lot of mindless dribble in which the authors try to translate highly mathematical concepts into words... this is avoided most of the time, to the delight of the student.Some might complain that it doesn't cover such-and-such as much as they want, but remember, the title of the book is "FOUNDATIONS of Aerodynamics." Suck it up!

Although significantly older than this text, I would suggest that readers look for a copy of 'The Aerodynamic Design of Aircraft' by Dietrich Kuchemann (Pergamon, 1976). Although not particularly up to date in terms of the advent of complex CFD methods, Kuchemann's text is an essential summary of the progress of analytical aerodynamics, and its experimental underpinnings, from Gottingen in the Ludwig Prandtl era, through to the technology of the mid 1970s.

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