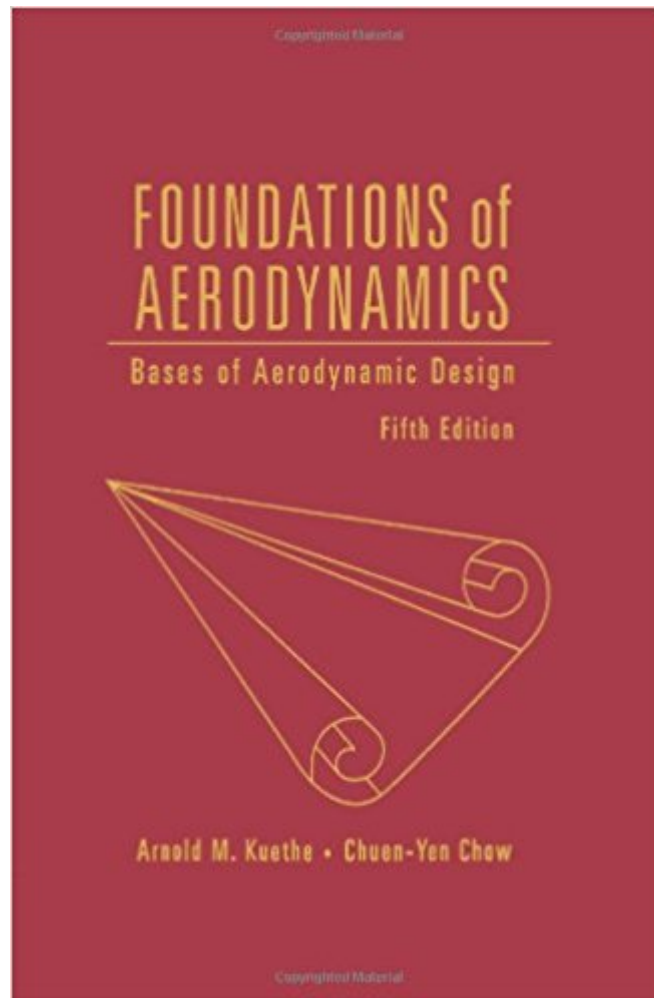




**Ebook Directory**  
the best source of ebook

The book was found

# 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

Paperback: 592 pages

Publisher: Wiley; 5 edition (December 3, 1997)

Language: English

ISBN-10: 0471129194

ISBN-13: 978-0471129196

Product Dimensions: 6.4 x 0.9 x 9.6 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 8 customer reviews

Best Sellers Rank: #249,562 in Books (See Top 100 in Books) #24 in [Books > Engineering & Transportation > Engineering > Aerospace > Aerodynamics](#) #34 in [Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction](#) #141 in [Books > Textbooks > Engineering > Aeronautical Engineering](#)

## 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.

[Download to continue reading...](#)

Foundations of Aerodynamics: Bases of Aerodynamic Design Foundations of Aerodynamics: Bases

of Aerodynamics Design Sailing Theory and Practice. A Scientific Analysis, with 335 Drawings and Photographs of the Aerodynamic, Hydrodynamic and Other Design Factors which Define a Yacht's Behaviour. Airplane Design Part VI : Preliminary Calculation of Aerodynamic Thrust and Power Characteristics Practical Intake Aerodynamic Design Aerodynamic Noise: An Introduction for Physicists and Engineers (Springer Aerospace Technology) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Composite Construction for Homebuilt Aircraft: The Basic Handbook of Composite Aircraft Aerodynamics, Construction, Maintenance and Repair Plus, How-To and Design Information Jet Propulsion: A Simple Guide to the Aerodynamics and Thermodynamic Design and Performance of Jet Engines Places Around the Bases: A Historic Tour of the Coors Field Neighborhood Sculptural Secrets for Mosaics: Creating 3-D Bases for Mosaic Application Trading Bases: A Story About Wall Street, Gambling, and Baseball (Not Necessarily in That Order) Acids and Bases - Food Chemistry for Kids | Children's Chemistry Books How to Make Plastic Ribbon Lampshades: for Barsony, Kalmar and other retro lamp bases Bananas, Beaches and Bases: Making Feminist Sense of International Politics Endodoncia + StudentConsult en espaÃ±ol: TÃ©cnicas clÃ­nicas y bases cientÃ­ficas (Spanish Edition) Political Terrorism: A New Guide to Actors, Authors, Concepts, Data Bases, Theories, and Literature Leddy & Pepper's Conceptual Bases of Professional Nursing Molecular Bases of Anesthesia (Handbooks in Pharmacology and Toxicology) The Physiology and Pharmacology of the Microcirculation, Vol. 1 (Physiologic and Pharmacologic Bases of Drug Therapy)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)