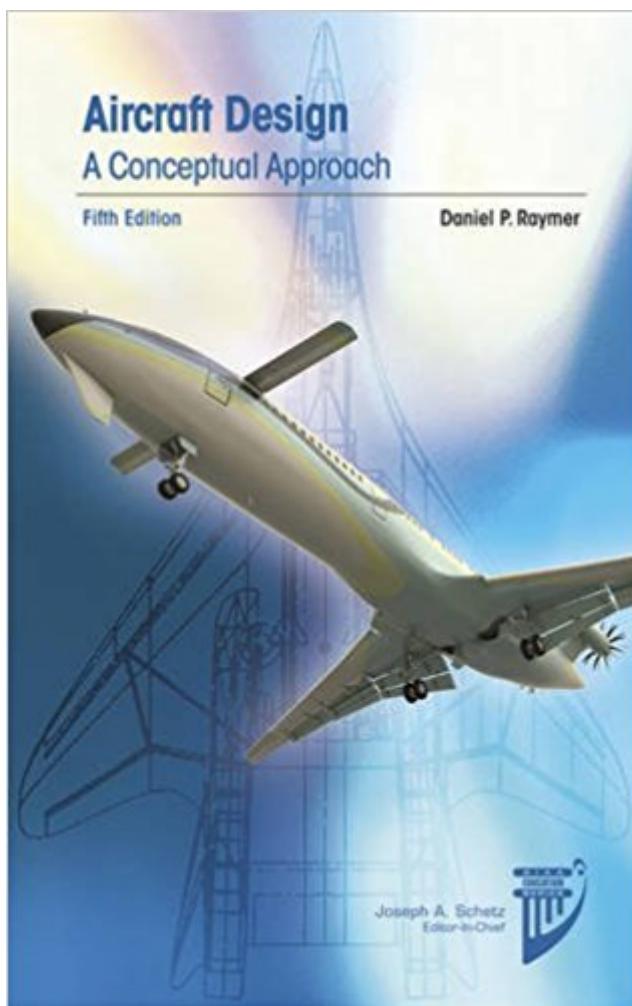


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Aircraft Design: A Conceptual Approach (Aiaa Education Series)



Synopsis

This best-selling textbook presents the entire process of aircraft conceptual design - from requirements definition to initial sizing, configuration layout, analysis, sizing, optimization, and trade studies. Using a real-world approach to the process of design, this title features more than 900 pages of design methods, illustrations, tips, explanations, and equations. It includes overviews of lofting, subsystems, maintainability, producibility, vulnerability, and stealth; concepts and calculation methods for aerodynamics, stability and control, propulsion, structures, weights, performance, and cost; coverage of conventional and unconventional design methods, including UAV, canard, tandem wing, C-wing, oblique wing, asymmetrical, multi-fuselage, wing-in-ground-effect, and more.

Book Information

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Customer Reviews

AIAA Fellow Daniel Raymer is a world-renowned expert in aerospace vehicle design. President of Conceptual Research Corporation, he received the 2010 AIAA Aircraft Design Award, the AIAA Summerfield Book Award, the Rockwell Engineer of the Year Award, and the Purdue University Outstanding Aerospace Engineer Award. He received B.S. and M.S. engineering degrees in Astronautics and Aeronautics from Purdue, an MBA from the University of Southern California, and a Doctorate of Engineering (Ph.D.) from the Swedish Royal Institute of Technology.

This book is very comprehensive, easy to read, and logical in its approach to teaching aircraft

design. I also really like its extra sections that go into alternative aircraft designs. The appendix is also really helpful in that it goes through a few examples of taking a variety of aircraft from conceptual design to working out the details of its final dimensions. My coursework did not require that I look at these last resources in the book but they serve well as a starting point for where you can go after an introductory design course.

My go-to reference book for aircraft design. Provides a nice overview of the entire conceptual design process. Doesn't go into as much detail as some other textbooks such as the Roskham series, but is compact, easy to follow and well written.

For those wanting to know just how different designs compare, and how to calculate the effectiveness of component air-frame designs this is an excellent book.

What is incredibly helpful are the example designs at the end of the book which walk you through the process of where to start and how to use all the different equations.

100% as referenced!

This book is extremely good, so easy someone in high school could use this. I recommend this to anyone who wants to learn how to become an AE Engineer (which this book also covers). One of the things I love about this the most is that it has entire sections of nomenclature in one easy to find spot along with many appendix's and complete math formulas along with how to the conversions.
Best Book Ever!

Great price, good book for design.

Good book, helps you understand step by step

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