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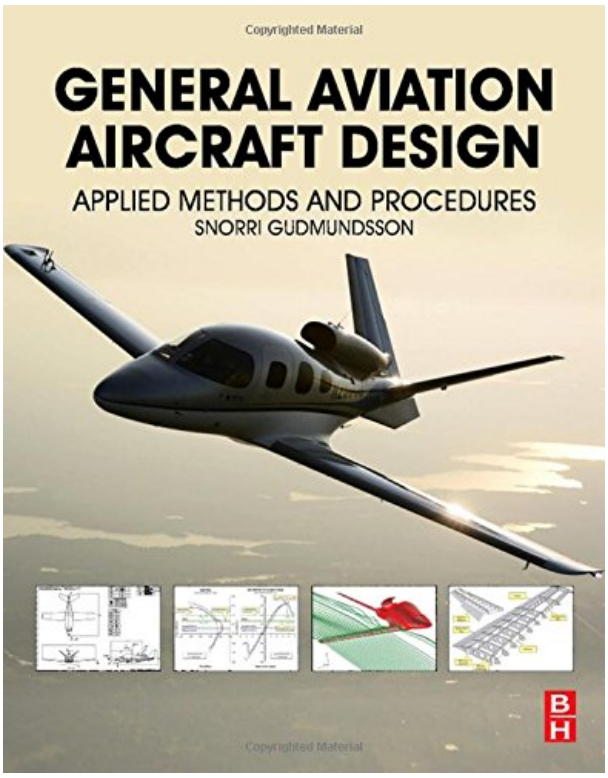

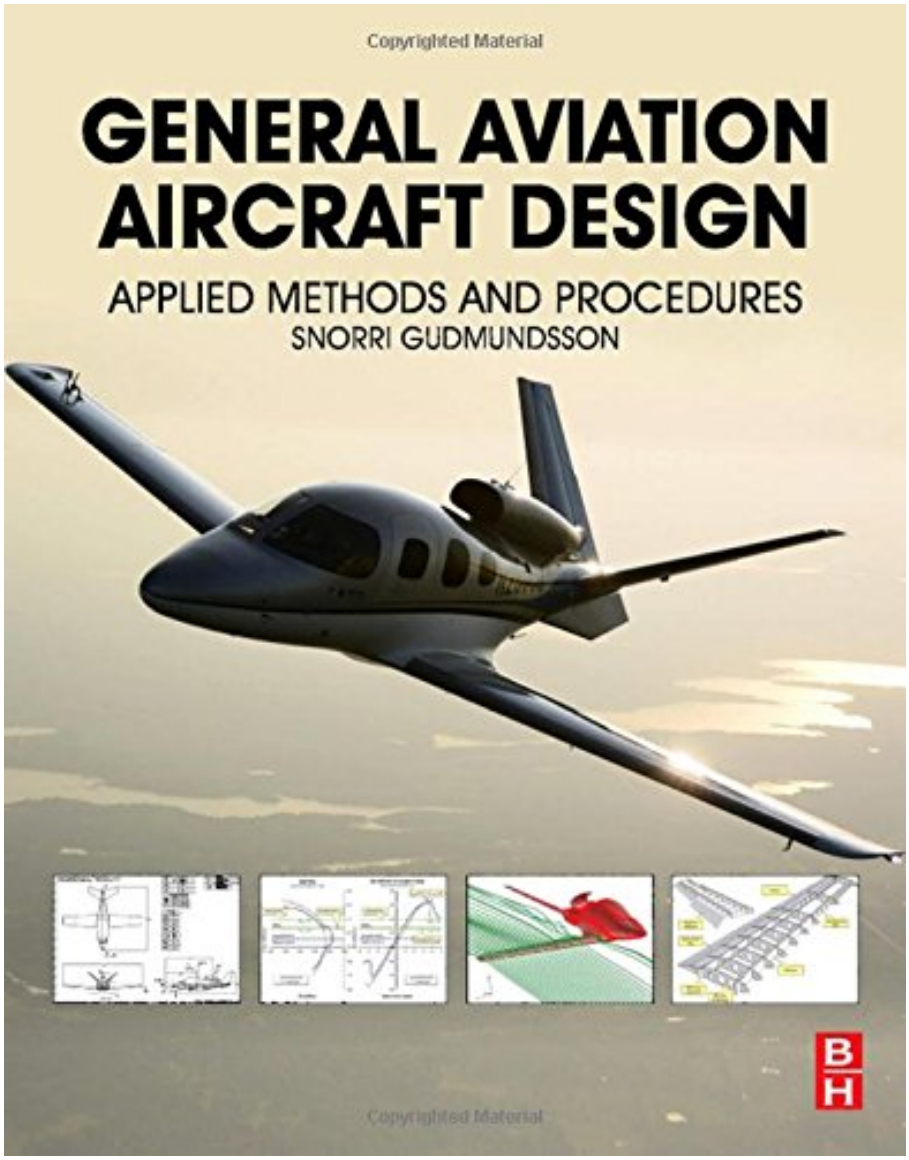

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Review

"...a splendid book…For anyone involved in the design of general aviation (GA) aircraft and those deeply interested in the subject, this book is highly recommended." --The Aeronautical Journal, General Aviation Aircraft Design

"A truly excellent book on aircraft design. Unlike many modern text books, it really tells the "story" of the subject with lots of current, real-world examples, data, and cautions, along with the mathematical equations that dominate many engineering texts. On that note I’d put it in with the aeronautical engineering classics like Perkins and Hage, or Bruhn for aircraft structures. The illustrations and graphics are also first-rate. I believe that this book will find wide acceptance among practicing engineers and students." --Brian E. Meyer, Manager, Aircraft Applications Engineering, Hartzell Propeller Inc.

About the Author

Snorri Gudmundsson, Department of Aerospace Engineering, Embry-Riddle Aeronautical University. From 1995-2009, Dr. Gudmundsson served as Manager of Aerodynamics Engineering at Cirrus Design Corporation. He has performed testing, analysis, and performance analysis review on variety of single and twin engine small aircraft. He is also a Consulting Designated Engineering Representative for the FAA as a Structural and Flight Analyst.

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Find the right answer the first time with this useful handbook of preliminary aircraft design. Written by an engineer with close to 20 years of design experience, General Aviation Aircraft Design: Applied Methods and Procedures provides the practicing engineer with a versatile handbook that serves as the first source for finding answers to realistic aircraft design questions. The book is structured in an "equation/derivation/solved example" format for easy access to content. Readers will find it a valuable guide to topics such as sizing of horizontal and vertical tails to minimize drag, sizing of lifting surfaces to ensure proper dynamic stability, numerical performance methods, and common faults and fixes in aircraft design. In most cases, numerical examples involve actual aircraft specs. Concepts are visually depicted by a number of useful black-and-white figures, photos, and graphs (with full-color images included in the eBook only). Broad and deep in coverage, it is intended for practicing engineers, aerospace engineering students, mathematically astute amateur aircraft designers, and anyone interested in aircraft design.

- Organized by articles and structured in an "equation/derivation/solved example" format for easy access to the content you need
- Numerical examples involve actual aircraft specs
- Contains high-interest topics not found in other texts, including sizing of horizontal and vertical tails to minimize drag, sizing of lifting surfaces to ensure proper dynamic stability, numerical performance methods, and common faults and fixes in aircraft design
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Most helpful customer reviews

6 of 6 people found the following review helpful.
Nice compilation of current aircraft design data
By Burton M. Knapp
This is a fantastic compilation of current information on pretty much all aspects of light aircraft design - including cost modeling and the Eastlake cost model - both very hard to find in conventional sources for airplane design. I may write another review after more time with the text, but it looks thorough, with numerous examples. review qualification: I am a 15+ year professional aircraft design engineer

One complaint: After some debate, I bought the hard copy because I like physical books, but found out too late that they printed only in black and white! The online version has very nice colour illustrations.

5 of 5 people found the following review helpful.
Excellent resource of current design philosophies
By mannikiswhoit
My company acquired this book a couple of weeks ago, long enough for me to become fairly familiar with its layout and structure. In short: This is a top-notch book, very thorough, well-organized, and extremely useful. I agree with one of the other reviewers - I too think it is going to become a classic. I base this opinion on the following:

(1) It is thoroughly referenced.
(2) It focuses on one class of aircraft (GA) rather than attempting to serve all categories. This results in depth rather than breadth of information.
(3) It provides detailed derivations of most equations. This is rare in design books, but for practicing engineers like me, it is valuable because I constantly wonder from where this or that particular equation came.
(4) It provides tools not found in any other design book. For instance, the Eastlake cost model and the Petty equation (which allows modeling of piston engines using RPM and MAP which is great for flight simulation and performance analysis work). It also provides methods to create realistic models of drag coefficients at high AOAs and propeller thrust at low airspeeds. These methods, to my knowledge, cannot be found in any other design book. In my opinion, only one of these justifies owning the book, let alone all four of them.

One final comment, while I too prefer color over grayscale, the content is far more valuable to me, so it's not an issue. I usually find it unfair to rate books based on design rather than content. It really only punishes

authors for the printed version of their books, something for which I can't imagine they are responsible. That aside, grayscale renders the book less expensive, something I'm sure college students will appreciate. I think any aerospace/aeronautical engineer worth their salt should have a copy in their library.

2 of 2 people found the following review helpful.
The General Aviation Aircraft Design Reference
By Fabien BONNASSIE
I am an aerospace engineer with 20 years experience in aviation and it has been refreshing for me to find the General Aviation aircraft Design: Applied methods and Procedures book. The book of Snorri Gudmundsson is the most complete one related to General aviation design. Its step-by-step methodology and the derivation of the equations allow for a better understanding of the maths behind the physics. As a handbook it helps the engineer to quickly have an estimate of various design parameters. If you are planning an external modification to your aircraft, you will find the guidelines to reverse engineered the drag characteristics of the aircraft and then estimate the new performances. In his book Snorri Gudmundsson pay attention to the details and provide data and references on all topics of the design process.
A lot of my design books will from now be covered with dust and I am sure that this book and his author will become a classic as the Bruhn can be for aerospace structure, and the Torenbeek for airliner design.
One negative point on the book is its size, but with the amount of information provided it couldn’t be an other way. Travelling a lot I have invested in the eBook version, which on top of allowing to have this reference book with me all the time, bring colour to the graphs.

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