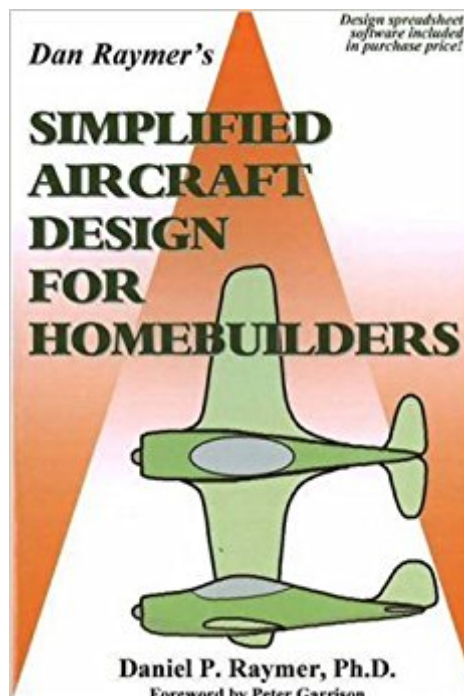




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Simplified Aircraft Design For Homebuilders



Synopsis

Easy to follow, step-by-step methods to lay out, analyze, and optimize your new homebuilt aircraft concept

Book Information

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Customer Reviews

The thing I like about this book, is how Dr. Raymer de-mystifies the process of analyzing aircraft design. The process as he lays it out, is totally different from how I had always approached it. That said, the formulas quickly left me in the weeds. The nice thing about that was how well he explained the point of the formula, so I can figure them out eventually. Plus, he gives you the common value derived from the formula. Since we're looking at common homebuilt designs, the normal range of values will generate designs with reasonably predictable performance characteristics. I especially liked how Raymer keeps the design open to unusual configurations. pusher/tractor, canard, asymmetric, are all fair game, as long as the formulas and ratios work out. That really frees the designer to break out of the boxes that seem to constrain light plane design these days. When you talk to aircraft builders, there are often engineer types who delight in telling the amateurs how unsafe and impractical every new idea is. Raymer's book lets you find that out for yourself, without the condescension. It also shows you just how close to practical the idea is....maybe just a little tweek is all an idea needs to be brilliant.

Good book on rules of thumb design of aircraft. It shows using simple language and examples the relationships between the multiple design choices that goes into an aircraft design

Perfect intro for newbies. Nothing too taxing on your noggin' and you don't need advanced math/physics/mech engineering skills to follow along.

Having done similar work years ago in my early career, I find this book to be a great balance of comprehensive (hitting the key topics) while also being concise (my college text books take up far more space). I enjoyed his style of writing. It was conversational, keeping it light where it could be, and serious where it must be. I also agree with his frequent advice; remember that this is preliminary work, with lots of detailed analyses and testing and caution to follow. Nicely done.

I teach aerodynamics and always end the course with a few hours on airplane design. This book is superb, written by a very knowledgeable fellow in a simple, straightforward fashion. His other book is a reference in the field, much more advanced and technical, though. Also recommended for pilots are the three books by Darrol Stinton. Very detailed, very well explained and as deep as you want without going into messy, messy mathematical stuff. Just plain serious plane talk.

Book very good, well explained and detailed, with many images and information, I recommend.

Great book for me as I'm a Mechanical Designer (not an engineer) I'll be reading back over this book again and again as I design my first plane.

Don't expect to be able to design an aircraft after reading this book. But it is a very good starting point! Actually I would recommend it as the first book to read if you are thinking about designing something.

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