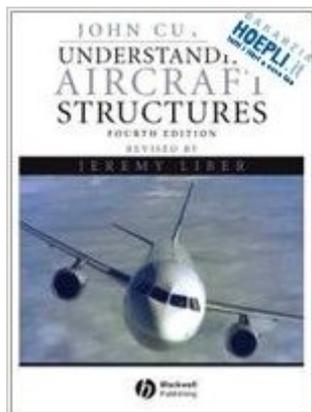


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# Understanding Aircraft Structures



## Synopsis

This book explains aircraft structures so as to provide a basic understanding of the subject and the terminology used, as well as illustrating some of the problems. It provides a brief historical background, and covers parts of the aeroplane, loads, structural form, materials, processes, detail design, quality control, stressing, and the documentation associated with modification and repairs. The Fourth Edition takes account of new materials and the new European regulatory system.

## Book Information

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## Customer Reviews

I am not an engineer, though I have an interest in designing an aircraft. I picked up the Spanish edition of this book in Costa Rica. It is very well illustrated and while technical is understandable by anyone with high school math and a serious interest in exactly what the title suggests. I must add willing to learn because it packs a large amount of information and knowledge into a small package. Very good cutaway drawings of medium to large commercial airplanes. Not specific to small private planes. If your're looking at aircraft engineering as a profession or to complement other design books without being too dry and technical, GET THIS BOOK. I'm waiting for the new edition in English.

I'm a postgraduate majoring in aeronautics. I think this book is generally suitable for those who have interest in aircraft structure but do not necessarily have educational backgrounds in related fields. In fact, although the emphasis of my study has always been one of aerodynamics rather than

structural design, I found little new in this book to learn after reading it cover to cover. If you have taken course modules such as Mechanics of Materials, Structural Mechanics back in college then there really isn't any need for you to pay for this book. But if you've just begun to study aeronautics and haven't quite decided what to do after graduation this can make an enjoyable introduction to Structural Design and Stressing. In such cases it is my suggestion to borrow it from your library, like I did.

I'm an aerospace engineer, and I bought this book just because after 4 years of formulae at university I needed something with no formulae to read about what I studied and I found this book...i must say, it makes me feel part of the aircrafts world even if I'm still studying...it's perfect and also my dad that is not an engineer likes it..he is reading the book and uses to discuss about its topics with me...it may seem to me he's an engineer too if I didn't know he isn't...ahah!!!..I think it's a useful book for a person that likes airplanes, to understand lots of things on these big "objects" flying in the sky!so...it's very worth buying it!!

The book is open to the future. Although it takes in the whole range of development of (airframe) structure, it was still opened to a possible change in the future. The author managed to criticize the current path of the industry and explained how the industry has been using the same structures since the 1930s (Semi-Coque structure). The book discusses industry and design methods ranging from pen, paper and a saw to computer analysis, covering almost all relevant disciplines, in some cases with great detail as well. It was nice of the author to respect those following SI units. Although he follows Imperial units, he never failed to skip embracing those who follow the other method. At the end, the book manages to put you on the right track whatever is your angle. So in short it's useful for all levels of expertise, starting from those within the basic level with just high school educational background in physics and mathematics to those in the most advanced engineering disciplines. As for me, I have a good background in production engineering but wasn't that experienced within the aerospace field. But since I'm working on a new design for aircraft structure it was most helpful to understand how it's currently done.

John Cutler, the author, is obviously a very smart individual...the problem is the book is written that way. If you're not an aeronautical wiz, it's very very confusing. I am at present time using this book in school, and if it weren't for my instructor (who by the way has a degree in aircraft engineering, and is almost as confused as his students) we would be lost.

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