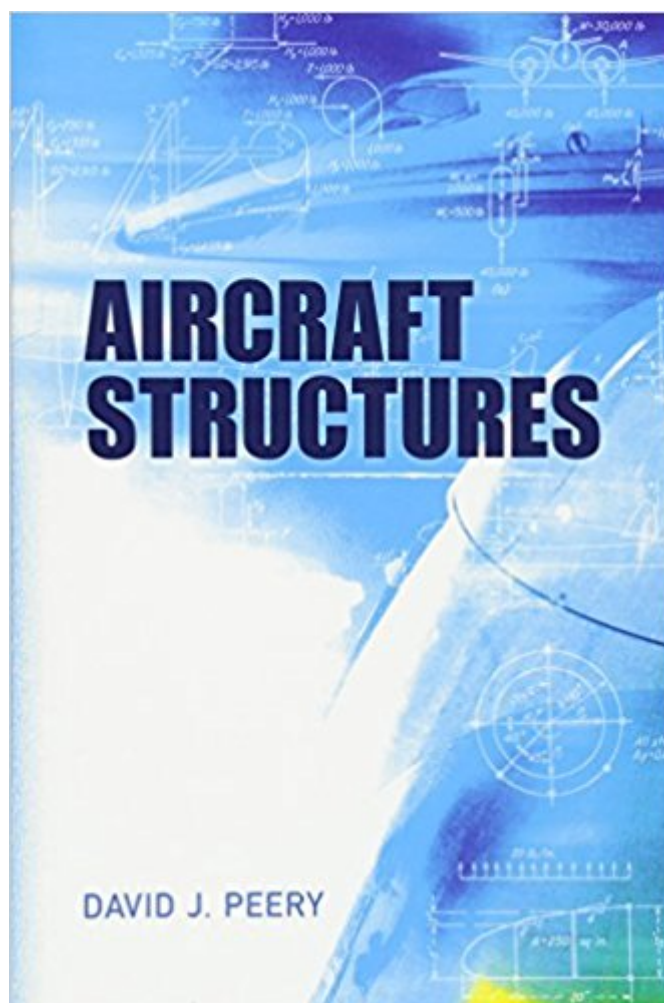


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# Aircraft Structures (Dover Books On Aeronautical Engineering)



## Synopsis

Still relevant decades after its 1950 publication, this legendary reference text on aircraft stress analysis is considered the best book on the subject. It emphasizes basic structural theory, which remains unchanged with the development of new materials and construction methods, and the application of the elementary principles of mechanics to the analysis of aircraft structures. Suitable for undergraduate students, this volume covers equilibrium of forces, space structures, inertia forces and load factors, shear and bending stresses, and beams with unsymmetrical cross sections. Additional topics include spanwise air-load distribution, external loads on the airplane, joints and fittings, deflections of structures, and special methods of analysis. Topics involving a knowledge of aerodynamics appear in final chapters, allowing students to study the prerequisite aerodynamics topics in concurrent courses.

## Book Information

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## Customer Reviews

The late David J. Peery was an Aeronautical Engineering Professor at Penn State University.

I got my BS in Aerospace Engineering in 1970. In order to graduate we had to design an entire airplane by hand (200+ passengers, four engines, etc.). We had to produce full drawings, a full structural analysis, full weight and balance analysis, full materials analysis, full engine analysis, i.e. enough information to start producing a real aircraft on an assembly line using only a slide rule, a

hand cranked adding machine, and books. This was one of those books. There were no computers or computer programs to help with the design. Those would be invented later and I helped develop some of the first structural analysis computer programs (because we were all tired of doing structural analysis by hand). So if the power grid is destroyed and there is no access to AutoCAD or CATIA, I can still design anything using this book (with several others), a pen, some paper, and a slide rule (which I still have). Get this book it might be a life saver.

Peery's book stands with E.F. Bruhn's as the two leading strength texts used by strength & structures professionals in the aircraft industry. Although Peery's text is clearer than Bruhn's in a few areas, I suspect Peery fell into second place after the second edition of his book was released, since that edition was inferior to the first. This Dover edition provides the opportunity for stress & structures folks to get Peery's original work at a fraction of the cost of Bruhn. I highly recommend that serious structures professionals obtain a copy of both.

Bit old text but useful for beginners.

Essential for pilots

As a mechanical engineer who's been interested in designing lightweight structures (eg for small homebuilt vehicles), I found this a good first book. It gives a good explanation of most of the important concepts. I may also buy a similar book by Megson ( as used by UNSW Aerospace Structures Lecturers). The only drawback is that there are no worked solutions to the set problems. There are however plenty of worked examples. It is in imperial units which is not so bad. It was written in the 50's however I didn't find it a problem. As someone has said its a classic in its field.

This is a very detailed and comprehensive book. My aircraft structures course professor in Cal Poly Pomona took material from this book, which kicked our butts, but after I acquired this book, I got to see why he chose to go with it and base the class around it. I highly recommend this book. If you wanna be a structures guy like myself, I would recommend buying this book and Bruhn. nuff said.

Old book, my professor is 80, and remembered it from many years back. There are plenty of examples and the concepts are easy to work through. Better than most text books and 1/10th of the price! I wish more professors would use older books if they can find them like this. Only complaint is

there are no solutions available, or answers in the back of the book. My school accepts use of solution manuals to double check answers because they understand that if you copy the work, you will fail the tests. Often these solutions help learning and make it possible to know real time if you are understanding the concepts. Even without the manual though, this book is still great. If you are a poor student, this is one book you should go ahead and buy. It's cheap and useful.

I had a good experience with this seller. Recommended.

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