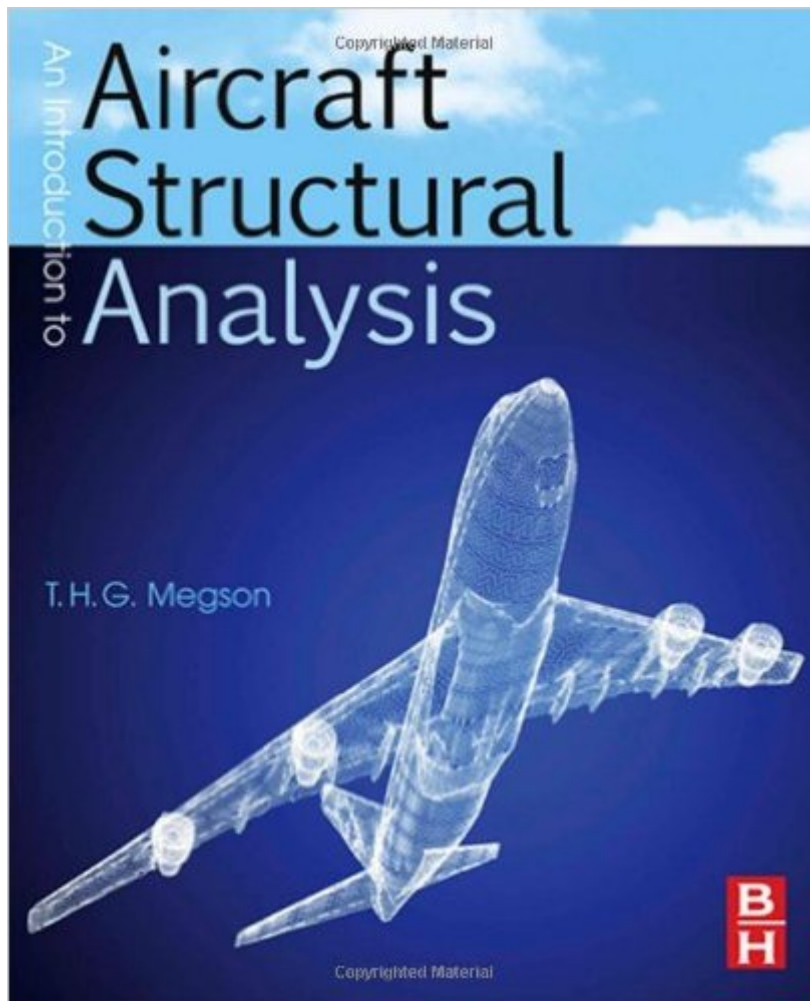


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# Introduction To Aircraft Structural Analysis (Elsevier Aerospace Engineering)



## Synopsis

Based on the author's best-selling text *Aircraft Structures for Engineering Students*, this brief book covers the basics of structural analysis as applied to aircraft structures. Coverage of elasticity, energy methods and virtual work set the stage for discussions of airworthiness/airframe loads and stress analysis of aircraft components. Numerous worked examples, illustrations, and sample problems show how to apply the concepts to realistic situations. Self-contained, this value-priced book is an excellent resource for anyone learning the subject. Covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aero elasticity. Systematic step by step procedures in the worked examples. Self-contained, with complete derivations for key equations. Based on the author's best-selling text *Aircraft Structures for Engineering Students*, this Intro version covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aeroelasticity. Systematic step by step procedures in the worked examples. Self-contained, with complete derivations for key equations.

## Book Information

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## Customer Reviews

My course in aircraft structures uses this as its text, and honestly I spend more time using other books in the library than this one. It covers all the appropriate subjects and the methods are correct, but the descriptions are not detailed enough to fully understand the process from the text alone.

Also, several of the examples contain errors; this really makes life difficult for the student! I don't know if the full version (this is "excerpted" from another of Megson's books) has been corrected in later editions.

I am currently taking an aircraft structural analysis course with this as a required text. At about halfway through the semester, I can say I've found more use of my mechanics of materials text than this book. It is very heavy with theory, and sometimes the theory is presented as a concept without any mathematical clarification. Our instructor has just gotten to the unit load and the flexibility method of analysis, and I have almost completely given up on understanding any of this from Megson's book. In all fairness, this book is full of different analysis methods, and I think the sparseness of information in some of these methods reflects the likelihood of actually using those methods in practice. Lots of problems worked out.(with tons of skipped steps!) Ultimately be prepared to read the text, look at the example problems that follow, and ask "why?,why? why?".

Provides a high quality teaching on aircraft structural analysis theory.

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