



Introduction to Aircraft Structural Analysis

By T. H. G. Megson

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Introduction to Aircraft Structural Analysis, Second Edition, is an essential resource for learning aircraft structural analysis. 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 sets 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.

This text is designed for undergraduate and postgraduate students of aerospace and aeronautical engineering as well as for professional development and training courses.

- Based on the author's best-selling text *Aircraft Structures for Engineering Students*, this introduction covers core concepts in about 200 fewer pages than the original 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

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Introduction to Aircraft Structural Analysis By T. H. G. Megson Bibliography

- Rank: #1641103 in eBooks
- Published on: 2013-10-25
- Released on: 2013-10-25
- Format: Kindle eBook

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Editorial Review

About the Author

T.H.G. Megson is a professor emeritus with the Department of Civil Engineering at Leeds University (UK). For Elsevier he has written the market leading Butterworth Heinemann textbooks Aircraft Structures for Engineering Students and Introduction to Aircraft Structural Analysis (a briefer derivative of the aircraft structures book), as well as the text/ref hybrid Structural and Stress Analysis.

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