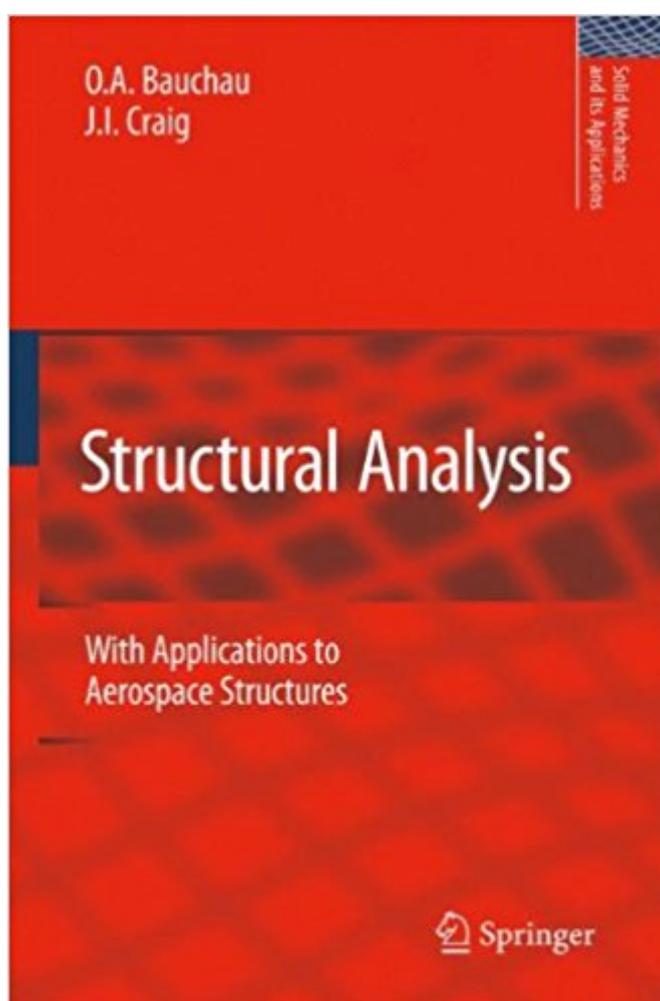


The book was found

# Structural Analysis: With Applications To Aerospace Structures (Solid Mechanics And Its Applications)



## Synopsis

The authors and their colleagues developed this text over many years, teaching undergraduate and graduate courses in structural analysis courses at the Daniel Guggenheim School of Aerospace Engineering of the Georgia Institute of Technology. The emphasis is on clarity and unity in the presentation of basic structural analysis concepts and methods. The equations of linear elasticity and basic constitutive behaviour of isotropic and composite materials are reviewed. The text focuses on the analysis of practical structural components including bars, beams and plates. Particular attention is devoted to the analysis of thin-walled beams under bending shearing and torsion. Advanced topics such as warping, non-uniform torsion, shear deformations, thermal effect and plastic deformations are addressed. A unified treatment of work and energy principles is provided that naturally leads to an examination of approximate analysis methods including an introduction to matrix and finite element methods. This teaching tool based on practical situations and thorough methodology should prove valuable to both lecturers and students of structural analysis in engineering worldwide. This is a textbook for teaching structural analysis of aerospace structures. It can be used for 3rd and 4th year students in aerospace engineering, as well as for 1st and 2nd year graduate students in aerospace and mechanical engineering.

## Book Information

Series: Solid Mechanics and Its Applications (Book 163)

Hardcover: 943 pages

Publisher: Springer; 2009 edition (September 21, 2009)

Language: English

ISBN-10: 9048125154

ISBN-13: 978-9048125159

Product Dimensions: 6.1 x 2 x 9.2 inches

Shipping Weight: 3.9 pounds (View shipping rates and policies)

Average Customer Review: 2.8 out of 5 stars [See all reviews](#) (5 customer reviews)

Best Sellers Rank: #932,975 in Books (See Top 100 in Books) #44 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural Dynamics](#) #467 in [Books > Textbooks > Engineering > Aeronautical Engineering](#) #477 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural](#)

## Customer Reviews

The book itself is fine, but 's kindle version has incorrect page ordering. I spoke with several

representatives and nobody was able to assist me with this issue. They lied to me about being able to download the book to confirm my problem, and the whole experience was less than pleasant. However, I think this speaks more about the problem with Kindle books than with this particular text. I would buy a hardcover copy if I didn't already shell out for the Kindle version.

Covers a whole lot of topics. This book offers a lucid and thorough explanation for all topics in Structures.

Although there is a lot of good material in this book, it is very hard to follow and should not be used for supplemental learning in mechanics education. Essential information and equations are scattered and badly presented. I would suggest multiple other textbooks over this one for engineering majors.

Great technical text for course work and beyond...

You can either read 60 pages of this overly wordy text or watch a ten minute youtube video to understand a simple derivation.

[Download to continue reading...](#)

Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Structural Shell Analysis: Understanding and Application (Solid Mechanics and Its Applications) Structural Analysis (Solid Mechanics and Its Applications) Design and Analysis of Composite Structures: With Applications to Aerospace Structures The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology Introduction to Aerospace Structural Analysis Introduction to Aircraft Structural Analysis (Elsevier Aerospace Engineering) Analysis of Aircraft Structures: An Introduction (Cambridge Aerospace Series) Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series, Vol. 15) Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series) Mechanics of Composite Materials, Second Edition (Mechanical and Aerospace Engineering Series) Aircraft Structures for Engineering Students, Fifth Edition (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students, Fourth Edition (Elsevier Aerospace Engineering) Aircraft Structures for Engineering Students (Elsevier Aerospace Engineering) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer,

Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] Structural Stability of Steel: Concepts and Applications for Structural Engineers Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) The Physics And Modeling of Mosfets (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology (Unnumbered)) Solid State Chemistry and its Applications

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)