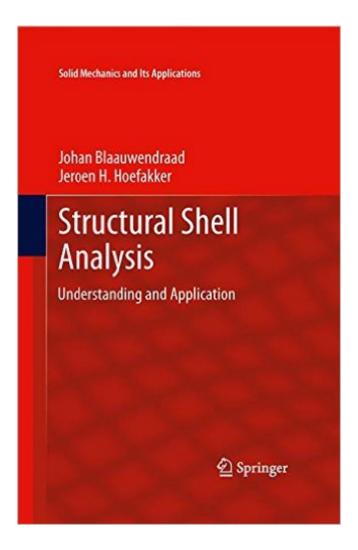
The book was found

Structural Shell Analysis: Understanding And Application (Solid Mechanics And Its Applications)





Synopsis

The mathematical description of the properties of a shell is much more elaborate than those of beam and plate structures. Therefore many engineers and architects are unacquainted with aspects of shell behaviour and design, and are not familiar with sufficiently reliable shell theories for the different shell types as derived in the middle of the 20th century. Rather than contributing to theory development, this university textbook focuses on architectural and civil engineering schools. Of course, practising professionals will profit from it as well. The book deals with thin elastic shells, in particular with cylindrical, conical and spherical types, and with elliptic and hyperbolic paraboloids. The focus is on roofs, chimneys, pressure vessels and storage tanks. Special attention is paid to edge bending disturbance zones, which is indispensable knowledge in FE meshing. A substantial part of the book results from research efforts in the mid 20th century at Delft University of Technology. As such, it is a valuable addition to the body of shell research literature of continuing importance. This work can be used for university courses. It also shows professionals how to perform manual calculations of the main force flow in shell structures, and provides guidance for structural engineers estimating stresses and deformations.

Book Information

Series: Solid Mechanics and Its Applications (Book 200)

Hardcover: 300 pages

Publisher: Springer; 2014 edition (September 7, 2013)

Language: English

ISBN-10: 9400767005

ISBN-13: 978-9400767003

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,361,582 in Books (See Top 100 in Books) #226 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Drilling Procedures #348 in Books > Engineering & Transportation > Engineering > Marine Engineering #517 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Industrial Design > Products

Download to continue reading...

Structural Shell Analysis: Understanding and Application (Solid Mechanics and Its Applications)

Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Structural Analysis (Solid Mechanics and Its Applications) The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology Mastering Unix Shell Scripting: Bash, Bourne, and Korn Shell Scripting for Programmers, System Administrators, and UNIX Gurus Shell Programming in Unix, Linux and OS X: The Fourth Edition of Unix Shell Programming (4th Edition) (Developer's Library) UNIX Shell Scripting Interview Questions, Answers, and Explanations: UNIX Shell Certification Review Learning the bash Shell: Unix Shell Programming (In a Nutshell (O'Reilly)) Portable Shell Programming: An Extensive Collection of Bourne Shell Examples Structural Stability of Steel: Concepts and Applications for Structural Engineers 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] Solid State Chemistry and its Applications Probabilistic Structural Mechanics Handbook: Theory and Industrial Applications 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)) Radiochemistry and Nuclear Methods of Analysis (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications) Analysis and Purification Methods in Combinatorial Chemistry (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications) Handbook of Petroleum Product Analysis (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications) Handbook of Coal Analysis (Chemical Analysis: A Series of Monographs on Analytical Chemistry and Its Applications)

<u>Dmca</u>