

# **Solution Mechanics Of Materials**

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*Mechanics of Materials Lecture 15: Bending stress: two examples Dr. Wang's contact info: Yiheng.Wang@lonestar.edu Bending stress: two examples Danville Community College EGR 246*

*Solids: Lesson 2 - Normal Stress Example, Units Review Top 15 Items Every Engineering Student Should Have! 1) TI 36X Pro Calculator <https://amzn.to/2SRJWkQ> 2) Circle/Angle Maker*

*Mechanical Engineering: Mechanics of Materials*

*Mohr's Circle (1/2 - explanation and how to draw) - Mechanics of Materials This video explains what Mohr's circle is and how to draw it from a given state of stress. It's better, faster, and louder than the first*

*Solids: Lesson 3 - Shear Stress Example, Single and Double Top 15 Items Every Engineering Student Should Have! 1) TI 36X Pro Calculator <https://amzn.to/2SRJWkQ> 2) Circle/Angle Maker*

*Average Normal Stress Example 1 - Mechanics of Materials This video is an example problem showing how to calculate the average normal stress of an axially loaded member and drawing*

*Combined Loading 3-D Example (Part 1) - Mechanics of Materials In this video we calculate the state of stress at a point in a rod that experiences a state of combined loading (i.e. internal normal,*

*Mechanics of Materials Problems*

*Mechanics of Materials Hibbeler R.C (Textbook & solution manual) Downloading links MediaFire: textbook:*

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*Shear Stress Calculation and Profile for I-beam Example - Mechanics of Materials An example problem that goes into detail on calculating the shear stress at various points on an I-shaped cross section.*

*Mechanics of Materials - Exam 1 Solution - S13 - 1 of 1 **Mechanics of Materials - Exam 1 Solution - S13 - 1 of 1.***

*Shear Stress due to Torsion Example 1 - Mechanics of Materials Example problem calculating the maximum shear stress in a circular shaft due to torsion. The video describes the following: 1)*

*Solids: Lesson 39 - Combined Loading Intro Problem Top 15 Items Every Engineering Student Should Have! 1) TI 36X Pro Calculator <https://amzn.to/2SRJWkQ> 2) Circle/Angle Maker*

*Statically Indeterminate Beam by Superposition Example 1 (Part 1/2) - Mechanics of Materials This video demonstrates how to calculate the reactions and draw shear and moment diagrams of a statically indeterminate beam*

*Mechanics of Materials - Exam 3 Solution - S13 - 1 of 1 **Mechanics of Materials - Exam 3 Solution - S13 - 1 of 1.***

*Poisson's Ratio Example - Mechanics of Materials Introductory example using Poisson's ratio to calculate changes in geometry of an axially loaded rod.*