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Conclusion

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Critical Locations

Axial Loading

Torsion

Bending

Transverse Shear

Combined Loading Example

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Tensile Strain
Compressive Stress
Maximum Stress
Ultimate Strength
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Shear Strain
What Is Shear Strain
The Signs of Shear Strain
Shear Strain Sign Convention
Find Gamma 1
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Strain | Part 1 | by Manas Patnaik 469,389 views 5 years ago 1 hour, 9 minutes - Mechanics, of Solids
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Shear stress (example 1)
Difference between normal stress and shear stress
Shear stress (example 2)
Shear strain
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Example
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Deformable Bodies
Find Global Equilibrium
Simple Truss Problem
The Reactions at the Support
Find Internal Forces

Solve for Global Equilibrium
Freebody Diagram
Similar Triangles
Find the Internal Force
Sum of the Moments at Point B
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Moment Diagram
Bending Stress Formula
Shear Moment Diagram
Shear
Shear Diagram
Height of the Shear Is Equal to the Slope of the Moment
Uniformly Distributed Load
Shear Force Diagram
Maximum Moment
Similar Triangles
How Shear Moment Diagrams Work
Moment Diagrams
Positive Bending
Free Body Diagram
Shear and Moment Diagrams
Moment at a Free End
Negative Moment
Stress Strain Elongation
Find the Strain in the Cable
Uniaxial Load and Deformation
Modulus Elasticity
Average Shear Stress and the Bolt
Shear Stress and Strain
Average Shear Stress
Megapascal
Unit Conversions
Maximum Torsional Shear Stress
The Polar Moment of Inertia
Moment of Inertia
Polar Moment of Inertia
Maximum Angle of Twist Developed
Modulus of Rigidity
Material Properties
Stress and Strain Formula
Copper Pipe Thermal Deformation
The Axial Stress in the Pipe
Solving Reactions
Sum of the Forces in the Y Direction
The Combined Stress
Combined Stress
Axial Stress
Sign Convention
What Are Principal Stresses
Principle Stresses

Max Shear Stress
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