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Questions correctly | 8 Advanced Tips ~~Mechanics of Materials IV: Deflections, Buckling, Combined Loading \u0026amp; Failure Theories- Quiz Answers~~ Mechanics of Materials II: Thin-Walled Pressure Vessels and Torsion | All Quiz Answers |

Overview of normal and shear stress 100 MCQ's For Fluid Mechanics (Part 1) ~~Mechanics of Materials CH 3 Torsion PART 1 Axial Deformation of Composite Bar [Series] || SOM || Lecture 7a Strength of Materials I: Normal and Shear Stresses (2 of 20) || R.S Khurmi Solution || Engineering Mechanics || Part 01 Bending stress in beams- problem 1-Mechanics of Solids Tensile Stress \u0026amp; Strain, Compressive Stress \u0026amp; Shear Stress- Basic Introduction || R.S Khurmi Solution || Engineering Mechanics || Part 04 || Mechanical Engineering Class 11 Physics NCERT Solutions | Ex 9.10 Chapter 9 | Mechanical Properties of Solids~~ How To Download Any Book And Its Solution Manual Free From Internet in PDF Format ! ~~Solutions Of Mechanics Solids By~~ Krandall 1 - Mechanics of Solid H.Crandall Solution chapter 1. Mechanics of Solid H.Crandall Solution chapter 1. University. Indian Institute of Technology Gandhinagar. Course. Mechanics of Solids (ES 221) Uploaded by. yup yup. Academic year. 2018/2019

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Determine the volume contraction of a solid copper cube, 10 cm on an edge, when subjected to a hydraulic pressure of 7.0×10^6 Pa.

Answer: Here a side of copper cube $a = 10$ cm, hence volume $V = a^3 = 10^{-3} \text{ m}^3$, hydraulic pressure applied $p = 7.0 \times 10^6$ Pa and from table we find that bulk modulus of copper $B = 140 \text{ G Pa} = 140 \times 10^9 \text{ Pa}$.

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