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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 \u0026 Strain, Compressive Stress \u0026 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~~

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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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This text is the primary recommendation of the UK Engineering Council Faculty of Technology to all British universities as of approved standard and quality for use as a text for the Board's own examinations. It introduces the fundamental concepts and principles of statics and stress analysis as the essential reading for first year engineering students.

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