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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 ||

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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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