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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 x 10⁶ Pa. Answer: Here a side of copper cube a = 10 cm, hence volume V = a³ = 10⁻³ m³ , hydraulic pressure applied p = 7.0 x 10⁶ Pa and from table we find that bulk modulus of copper B = 140 G Pa = 140 x 10⁹ Pa.

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Mechanics of Solids and Fluids BY ROBERT F. STEIDEL, JR. Professor of Mechanical Engineering (Retired), University of California, Berkeley VITTORIO (RINO) CASTELLI Senior Research Fellow, Xerox Corp. J. W. MURDOCK Late Consulting Engineer LEONARD MEIROVITCH University Distinguished Professor, Department of Engineering

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In solid mechanics, it is well known that the Principle of Virtual Displacements (PVD) involves only a compatible displacement field as a variable and has for its Euler-Lagrange equations the conditions of balance of momenta and traction boundary conditions. Likewise, the dual form of PVD, i.e., the Principle of Virtual Forces (PVF), involves a stress field which is equilibrated and satisfies the traction boundary conditions, alone as a variable and has the kinematic compatibility conditions ...

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