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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 $V = a^3 = 10^3$ m³, hydraulic pressure applied $p = 7.0 \times 10^6$ Pa and from table we find that bulk modulus of copper $B = 140$ G Pa = 140×10^9 Pa.

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Mechanics of Solids

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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