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The expression of the principle of conservation of energy is where p_1 is the pressure at point 1. p_2 is the pressure at point 2. γ is the specific weight of fluid. z_1 is the elevation head at point 1. z_2 is the elevation head at point 2. v_1 is the velocity of flow at point 1. v_2 is the velocity of flow at point 2. g is the acceleration due to gravity. h_A is the energy addition

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Step 1 of 2. Pressure is defined as the normal force applied to the unit surface area. Here, P is the pressure, F is the normal force, and A is the unit surface area. The fluid pressure also depends on the density of the fluid and the depth at the point of interest. Where the density of the fluid, g is the acceleration due to gravity, and h depth at the point of interest.

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Solution: Apply the hydrostatic formula down through the three layers of fluid: bottom air oil oil water water mercury mercury 3 or: 60000 Pa pair (8720 N/m) (1.5 m) (9790) (1.0 m) (133100) (0.2 m) Solve for the pressure in the air space: pair 10500 Pa Ans.

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Knowledge of the fluid mechanics of the problems and familiarity with the design of the spreadsheet are required to make such adjustments accurately. II-A & II-B Sl: This spreadsheet solves Class II series pipe line problems using either Method II-A or Method II-B as described in Chapter 11 of the text. Sl Metric units are used.

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