

Download Thermodynamics Exam With Solutions

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1. What is the absolute pressure, in SI units, of a fluid at a gauge pressure of 1.5 bar if atmospheric pressure is 1.01 bar? Solution Absolute pressure = $p = p_g + p_a = 1.50 + 1.01 = 2.51 \text{ bar} = 251 \text{ kPa}$
2. Convert $-25 \text{ }^\circ\text{C}$ to a temperature in degrees Kelvin. Solution $T[\text{K}] = T[^\circ\text{C}] + 273.15 = -25 + 273.15 = 248.15 \text{ K}$
3. Calculate the following: (i) the kinetic energy of ...

Physics Qualifying Exam at UIC Questions and Solutions. The solution sets, neither complete nor perfect, are draft versions for a quick reference purpose.