

## *Engineering Thermodynamics Problems And Solutions*

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Thermodynamics worked examples 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 oC to a temperature in degrees Kelvin. Solution  $T[\text{K}] = T[\text{oC}] + 273.15 = -25 + 273.15 = 248.15 \text{ K}$  3.

### Thermodynamics worked examples - Taylor & Francis

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Thermodynamics and Chemistry Second Edition Version 7a, December 2015 Howard DeVoe  
Associate Professor of Chemistry Emeritus University of Maryland, College Park, Maryland

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