

Engineering Thermodynamics Cheat Sheet

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Basic Thermodynamic Formulas (Exam Equation Sheet) Control Mass (no mass flow across system boundaries) Conservation of mass: ? = ??????????. Conservation of energy (1st Law): ???= ?? = ??+ ???+ ??? = ? ??+ ?2 2?? 1 2 2 + ?(??2?1)

Basic Thermodynamic Formulas (Exam Equation Sheet)
Thermodynamics cheat sheets - 12000.org Thermodynamics key facts (7/9) • Ideal gas law • 1. st. form : ?????= ?????. ?? . ?? • ??=Pressure, ??=Volume, ??=number of molecules, ?? . ?? =Boltzmann's constant, ??=temperature [in K] • 2. nd. form : ?????=

Engineering Thermodynamics Equation Sheet
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Thermodynamics key facts (3/9) • Heat energy needed to change phase • The latent heat ??determines the energy ?? needed to change the phase of a mass ?. • Units of ??will be ??????. ?1. - can be fusion or vaporization • This energy is either absorbed (solid ?liquid ?gas) or released (gas ?liquid ?solid) • A phase change takes place at constant temperature.

Revision | Thermodynamics
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Thermodynamics ? ?T A v = A 2 v P = rate of heat transfer Q = thermal energy A = Area of thermal conductivity U = coefficient of heat conductivity (U-factor) T = change in temperature R = resistance to heat flow (R-value) v = velocity net = net power radiated = 5.6696 x 10-8 1, T 2 = temperature at time 1, time 2 v = flow velocity

Engineering Formula Sheet
IV. The First Law of Thermodynamics as a Rate Equation A. Most general form dE c.v. dt = Q ? c.v. W ? c.v. + m ? in e in m ? out e out rate of change of energy in c.v. = rate of heat added to c.v. rate of work done + rate of energy flow in to c.v. rate of energy flow out of c.v. B. For a steady flow process d dt = 0 and m ? in = m ? out = m ? Q ? c.v. W ?

COMPENDIUM OF EQUATIONS-Unified Engineering Thermodynamics
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Engineering Thermodynamics Equation Sheet
Thermodynamics: the study of energy, energy transformations and its relation to matter. The anal-ysis of thermal systems is achieved through the application of the governing conservation equations, namely Conservation of Mass, Conservation of Energy (1st law of thermodynam-ics), the 2nd law of thermodynamics and the property relations.

Basic Concepts of Thermodynamics
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Thermodynamics Equations Cheat Sheet
engineering work. pressures are often measured with respect to atmospheric pressure rather than with respect to absolute vacuum. P abs = P atm + P gauge In SI units the derived unit for pressure is the Pascal (Pa), where 1 Pa = 1N/m2. This is very small for engineering purposes, so usually pressures are given in terms of kilofascals (1 kPa = 103 Pa),