

## *Engineering Thermodynamics Formula Cheat Sheet*

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### Engineering Thermodynamics Formula Cheat Sheet

76 THERMODYNAMICS Wet-bulb temperature  $T_{wb}$  is the temperature indicated by a thermometer covered by a wick saturated with liquid water and in contact with moving air. Humid Volume: Volume of moist air/mass of dry air. Psychrometric Chart

### FE Reference 8-2.1104web - College of Engineering

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Thermodynamics is filled with equations and formulas. Here's a list of the most important ones you need to do the calculations necessary for solving thermodynamics problems. Combustion equations: Air-fuel ratio: Hydrocarbon fuel combustion reaction: Compressibility calculations: Compressibility factor  $Z$ :  $Pv = ZRT$ .

### Thermodynamics For Dummies Cheat Sheet - dummies

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Basic Thermodynamic Formulas (Exam Equation Sheet) Control Mass (no mass flow across system boundaries) Conservation of mass:  $\dot{m}_{in} = \dot{m}_{out}$

### Basic Thermodynamic Formulas (Exam Equation Sheet)

Thermodynamics is filled with equations and formulas. Here's a list of the most important ones you need to do the calculations necessary for solving thermodynamics problems. Combustion equations: Air-fuel ratio: Hydrocarbon fuel combustion reaction: Compressibility calculations: Compressibility factor  $Z$ :  $Pv = ZRT$ .

### Important Thermodynamic Equations and Formulas - dummies

Seriously, if you can understand  $F=ma$  and the concept of a limit, then all you need is several years of working on the rest. Ha! You get told the concept of a limit in your very first Calc class, you think you understand it, you take six more years of math classes, the very last math class is all about limits and it turns out you never understood them.

### Very useful cheat sheet containing many formulas ...

PLTW, Inc. Engineering Formulas Mode Mean  $n$  = number of data values max events A and B and C occurring in sequence  $x A q = 1 P(\sim A)$  = probability of event A. Engineering Formula Sheet. Probability. Conditional Probability Binomial Probability (order doesn't matter)

### Engineering Formula Sheet - Home - Madison Local Schools

Cheat Sheets. Overview Acids and Base Formulas Basic Knowledge Common Ions Common Organic Functional Groups Gas Laws Formulas Kinetics Formulas Molecular Geometry Chart Strong/Weak Acids and Bases Thermodynamics Formulas

### Cheat Sheet Overview - Formulas and Guides - Gas Laws ...

EECE 450 — Engineering Economics — Formula Sheet Cost Indexes: Index value at time B Index value at time A Cost at time B Cost at time A = Power sizing: power -sizing exponent Size (capacity) of asset B Size (capacity) of asset A Cost of asset B Cost of asset A =  $x \times$  Learning Curve: learning curve exponent

### EECE 450 — Engineering Economics — Formula Sheet

COMPENDIUM OF EQUATIONS Unified Engineering Thermodynamics I. Equation of State:  $p v = RT$  or

$p = RT$  for a thermally perfect gas II. Expressions for Work: A. Work for a simple compressible substance  $W = \int p \, dV$  B. Work for a simple compressible substance undergoing a quasi-static process  $W = \int p \, dV$

**COMPENDIUM OF EQUATIONS Unified Engineering Thermodynamics**

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Since I rather focus on the difficult optimization problems, algorithms and calculations than learning tons of boring facts and definitions, I put the theory of more or less 2 whole books on my cheat sheet. The formulas and algorithms weren't on my cheat sheet at all. So yes, I did use them.

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College Cheat Sheets. When he passed it out with the test, there were only things like  $\sqrt{4} = 2$ ,  $\sin^2 + \cos^2 = 1$ ,  $V=IR$ , etc. We were nowhere as amused as he was (since I knew I aced the exam, I had the courage to correct his formula sheet by pointing out that the proper solution to  $\sqrt{4}$  is  $\pm 2$ ).

**College Cheat Sheets - RF Cafe**

practice of the chemical engineering profession. With these principles you should be able to solve many chemical engineering problems. Good Luck! AIChE would like to thank Professors David Murhammer, Chuck Coronella, Galen Suppes, and Joseph F. Louvar for their work on this Handbook. 13282AICEtext 4/12/04 12:20 PM Page p5

**ChemE**

PLTW Engineering Formula Sheet 2016 ((6.3) w D w Numbers Less Than One Numbers Greater Than One Power of 10 Decimal Equivalent Prefix Abbreviation Power of 10 Whole Number Equivalent Prefix Abbreviation 10<sup>-1</sup> 0.1 deci- d 10<sup>1</sup> 10 deca- da 10<sup>-2</sup> 0.01 centi- c 10<sup>2</sup> 100 hecto- h 10<sup>-3</sup> 0.001 milli- m 10<sup>3</sup> 1000 kilo- k

**PLTW Engineering Formula Sheet 2016 (v16.1)**

ME 211 and ME312 Thermodynamics Equation Sheet D. Abata, October 8, 2015 Conservation of mass: where Boundary work any system: and flow work (open system) , assuming ideal gas and since  $T=C$  then and For the polytropic process, that is : ... HAND IN THIS EQUATION SHEET WITH YOUR EXAM.

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FORMULA SHEET General formulas: Newton's 2nd law of motion.  $F=ma$  ... First law of Thermodynamics, where  $\Delta U$  is the net work done on the system.  $\Delta Z = \Delta U + \Delta K + \Delta P$  The thermal energy balance in a steady state without energy change.  $0 = \dot{Q} - \dot{W} + \sum \dot{m}_i h_i - \sum \dot{m}_j h_j$  The mechanical energy balance.  $0 = \dot{Q} - \dot{W} + \sum \dot{m}_i \frac{V_i^2}{2} - \sum \dot{m}_j \frac{V_j^2}{2}$

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