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Thermodynamic Property Tables: Drill #1

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How to Use Steam Tables **How to use thermodynamics tables** How to use Steam Table —Easiest Way How to do the \"Interpolation\" ?? Thermodynamics: Property Tables; Ideal Gases (5 of 25) **How to DESIGN and ANALYSE a refrigeration system** Steam Tables: Interpolation

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3, pt 2 of 5: Property Tables #2 Properties of Pure Substance (How to read thermodynamics tables) **Thermodynamics: Properties of ideal gas mixtures, Dry air/water vapor mixtures (43 of 51)** ~~Ductwork sizing, calculation and design for efficiency - HVAC Basics + full worked example~~

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Thermodynamic properties of a pure substance from a property table *Density, Specific Volume, and Specific Gravity* **Adiabatic Flame Temperature in Excel Thermodynamics: Humidity, Enthalpy of air/water vapor mixtures, Dew point (44 of 51)** *Excel Table Thermodynamic Properties Air*

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Thermodynamic Tables B.1 Thermodynamic properties of steam, temperature table B.2 Thermodynamic properties of steam, pressure table B.3 Thermodynamic properties of superheated steam B.4 Thermodynamic properties of air B.5 Specific heats of common gases B.6 Molar specific heats of common gases Principles of Turbomachinery. By Sepp Ao. Korpela 437

## *Appendix B: Thermodynamic Tables*

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### *Excel Table Thermodynamic Properties Air*

A thermodynamic property calculation tool has been developed based on the Excel spreadsheet program. This tool can be used to determine individual state points by a graphical user interface (GUI) calculator. In addition, spreadsheet cell formulas and Visual Basic function calls can also be used

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to build models of thermodynamic systems.

### *Spreadsheet Calculations Of Thermodynamic Properties*

Manual Installation. Download the .xlam file from here (ThermoTables.xlam) Move the downloaded file to the "C:/Add-ins" folder (or create the folder if it does not exist) Open Excel, go to File->Options choose "Trust Center" from the left menu bar, then click "Trust Center Settings" on the right in ...

*Excel in M.E.*

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The workbook uses the Coolprop Excel add-in  
to compute thermophysical properties of a  
baker's dozen of fluids. The user can then  
plot the saturated liquid and saturated vapor  
lines in one of four common formats: (1)

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Temperature – entropy, (2) Pressure – volume, (3) Temperature – volume and (4) enthalpy – entropy ( Mollier diagram).

### *Thermodynamic Cycle Spreadsheets*

Tables are presented for the thermodynamic properties of air from 90 to 15000K using (1) temperature and pressure and (2) temperature and density as independent variables. The pressure tables range from 1 to 1200 atmospheres, whereas the density tables extend from  $10^{-7}$  to 400 relative atmospheres (or amagat units).

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*Tables of thermodynamic properties of air from 90 to 1500 K*

The Steam97 Excel Add-In library calculates 30 thermodynamic and transport properties of water and steam in SI and English units. It allows 16 different combinations of input variables to be used for calculations. Input variables that can be used are: 1 Pressure; 2 Temperature; 3 Enthalpy; 4 Entropy; 5 Volume; 6 Internal energy; 7 Steam quality

*Steam Tables IAPWS-IF97 Excel - MegaWatSoft*  
For thermodynamics and fluid mechanics problems, values of entropy, specific heat

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energy etc must be known for various fluids and their value can easily be obtained from these tables.

*(PDF) Thermodynamics Properties Table | Suddiyas Nawaz ...*

Table A-16 Properties of the atmosphere at high altitude  
Table A-17 Ideal-gas properties of air  
Table A-18 Ideal-gas properties of nitrogen,  $N_2$   
Table A-19 Ideal-gas properties of oxygen,  $O_2$   
Table A-20 Ideal-gas properties of carbon dioxide,  $CO_2$   
Table A-21 Ideal-gas properties of carbon monoxide,  $CO$   
Table A-22 Ideal-gas ...

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## *PROPERTY TABLES AND CHARTS (SI UNITS)*

A thermodynamic property calculation tool has been developed based on the Excel™ spreadsheet program. This tool can be used to determine individual state points by a graphical user interface (GUI) calculator. In addition, spreadsheet cell formulas and Visual Basic function calls can also be used to build models of thermodynamic systems.

## *Spreadsheet Calculations of Thermodynamic Properties*

The following GUI and/or Excel files and

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MATLAB functions can be used to read data and determine properties from the Thermodynamic Tables. Please do not edit/modify any of these files/functions. They contain copyrighted information. The MATLAB functions are in an encrypted format (\*.p extension). These can be used as any other \*.m file.

### *MATLAB Marina*

Va=volumeof dryair(ft.^/lbof air) Vs=volumeof saturatedmoistair(ft.^'/lbofdryair)  
Ws=humidityratioofsaturatedmoistair(lb ofH2O/lbdryair) fs=air-waterinteractionfactor  
hu)=enthalpy ofsaturatedwater(Btu/lb H^0) Pvs

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=vaporpressureofliquidwaterinmoisturesaturate  
dair(inchesHg) Sa=entropyofdryair(Btu/lb,F) 5  
s=entropyofsaturatedmoistair(Btu/F,lbofdryair  
) 1.

*Algorithms for psychometric calculations  
(skeleton tables ...*

Please note that not all properties are implemented in DWSIM – if you ask for a property that is not available, a NotImplemented exception will be returned by the Add-In. Single compound constant properties

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*Excel Add-In for Thermodynamic Calculations - DWSIM ...*

PsychroLib: a library of psychrometric functions to calculate thermodynamic properties of air D. Meyer<sup>1</sup> and D. Thevenard<sup>2</sup>  
1 Department of Meteorology, University of Reading, Reading, UK 2 Canadian Solar, Guelph,

*PsychroLib: a library of psychrometric functions to ...*

1.(a) Start Excel and press the "Insert Function" toolbar button. 1.(b)

Alternatively, start Excel and press the



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"Insert Function" menu item. 2. Select a NH3Tables library (SI or English units). 3. Select a function and press the OK button. 4. Enter input parameters and press the OK button.

*Ammonia Properties Excel - MegaWatSoft*  
thermodynamic properties of R152a refrigerant - specific volume, internal energy, enthalpy, and entropy in the wet, subcooled and superheated-vapor regions. The calculated values are accurate compared to the standard reference properties tables for refrigerants. Computed properties' data can easily be used

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in the Excel spreadsheet for

*MS Excel Spreadsheet Add-in for Thermodynamic Properties ...*

Table of Contents Table A.1SI Polynomial Constants for  $c_p$  (kJ/(kmole•K)) 3 Table A.2SI Specific Heats for Ideal Gases in SI Units 4 Table A.3SI Ideal Gas Properties of Air in SI Units 10 Table A.4SI Ideal Gas Properties of  $N_2$  in SI Units 15 Table A.5SI Ideal Gas Properties of  $O_2$  in SI Units 20 Table A.6SI Ideal Gas Properties of  $H_2$

*Ideal Gas Property Tables*

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The following thermodynamic properties will be calculated: density, dynamic viscosity, kinematic viscosity, specific enthalpy, specific entropy, specific isobar heat capacity  $c_p$ , thermic conductivity, coefficient of thermal expansion, heat conductance, thermal diffusivity, Prandtl-number, coefficient of compressibility  $Z$ .

### *Online - Calculation - Air*

Thermodynamic databases contain information about thermodynamic properties for substances, the most important being enthalpy, entropy, and Gibbs free energy.

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Numerical values of these thermodynamic properties are collected as tables or are calculated from thermodynamic datafiles. Data is expressed as temperature-dependent values for one mole of substance at the standard pressure of 101.325 kPa, or 100 kPa.

Unfortunately, both of these definitions for the standard condition for pressure are in us

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