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Steam Tables and Property Libraries Software

for Excel, MATLAB, Mathcad, Dymola, SimulationX, LabVIEW, EES, Smart Phones, Tablets, Pocket Calculators, and Online Use

FluidEXL^{Graphics} for Excel[®]

Menu bar of FluidEXL

Menu for choosing the library and function

Choosing diagrams for water and steam and for displaying the calculated property values

FluidLAB for MATLAB[®]

Function call of FluidLAB

FluidVIEW for LabVIEW[®]

FluidMAT for Mathcad[®]

Function call of FluidMAT

FluidDYM for DYMOLA[®], SimulationX[®]

FluidEES for Engineering Equation Solver[®]

Function call of FluidEES

Online Property Calculator

Property library

Function

www.thermodynamics-zittau.de

App International Steam Tables for iPhone, iPad, iPod touch, and Android Phones and Tablets

The following thermodynamic and transport properties can be calculated^a:

Thermodynamic Properties

- Vapor pressure p_s
- Saturation temperature T_s
- Density ρ
- Specific volume v
- Enthalpy h
- Internal energy u
- Entropy s
- Exergy e
- Isobaric heat capacity c_p
- Isochoric heat capacity c_v

Transport Properties

- Isentropic exponent κ
- Speed of sound w
- Surface tension σ
- Dynamic viscosity η
- Kinematic viscosity ν
- Thermal conductivity λ
- Prandtl-number Pr

Backward Functions

- $T, v, s(p, h)$
- $T, v, h(p, s)$
- $p, T, v(h, s)$
- $p, T(v, h)$
- $p, T(v, u)$

Thermodynamic Derivatives

- All partial derivatives can be calculated.

^a Not all of these property functions are available in all property libraries listed before.