KCE
ThermoFluidProperties

Hochschule Zittau/Görlitz
UNIVERSITY OF APPLIED SCIENCES

Properties Calculation Software

for Excel, MATLAB, Mathcad, Engineering Equation Solver, Dymola, LabVIEW, Smartphones, Tablets, Pocket Calculators, and Online Use

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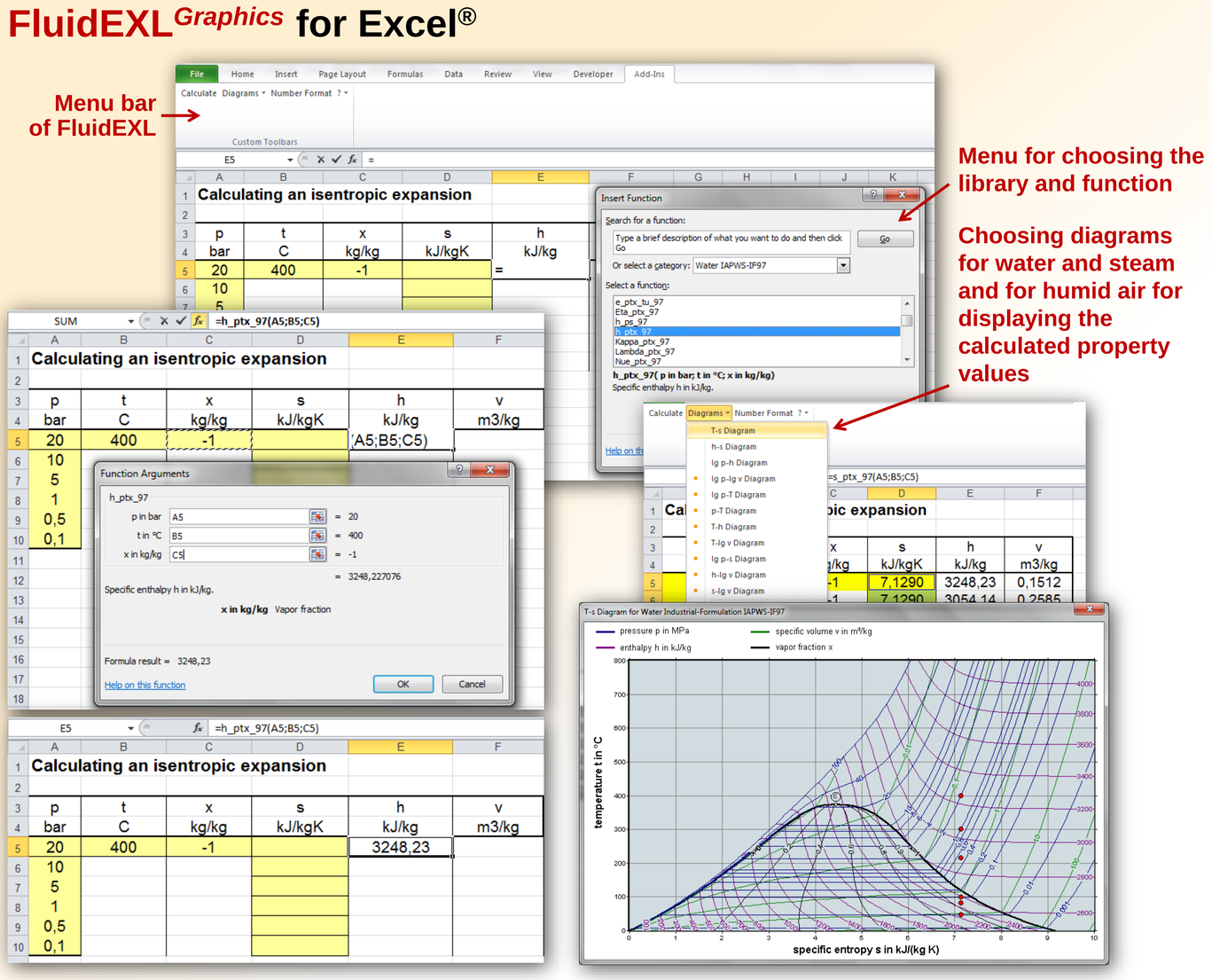
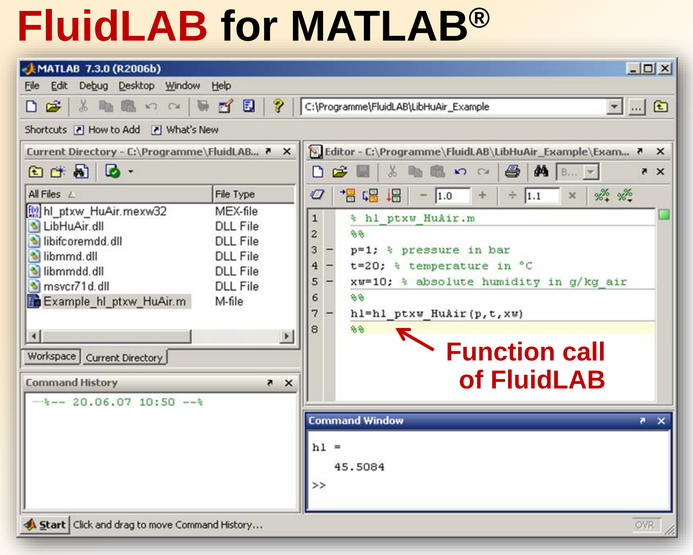
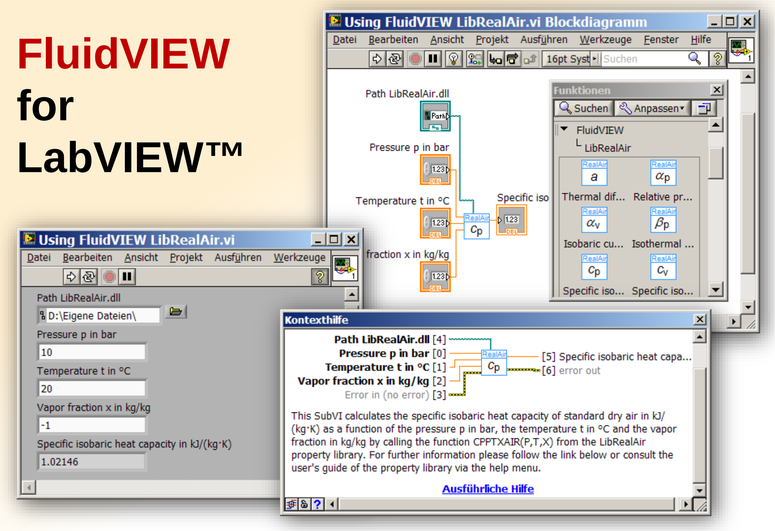
FluidEXL*Graphics* for Excel®



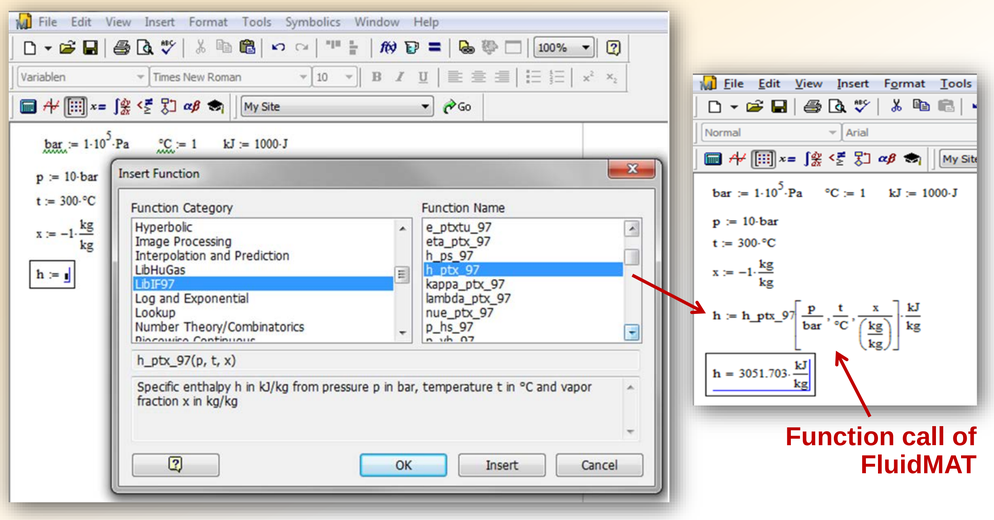
FluidLAB for MATLAB®



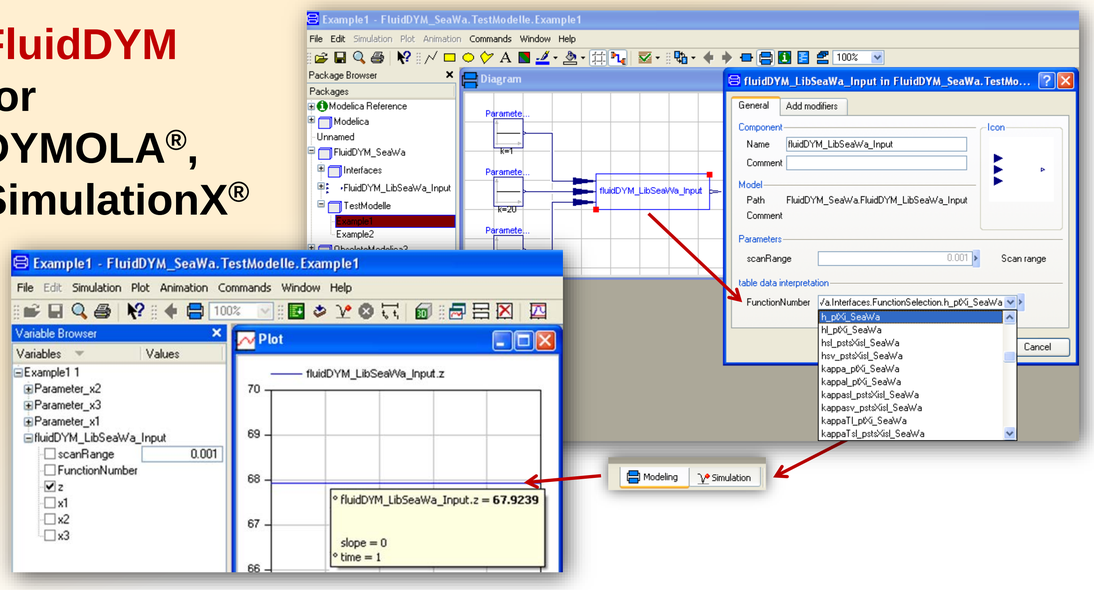
FluidVIEW for LabVIEW™



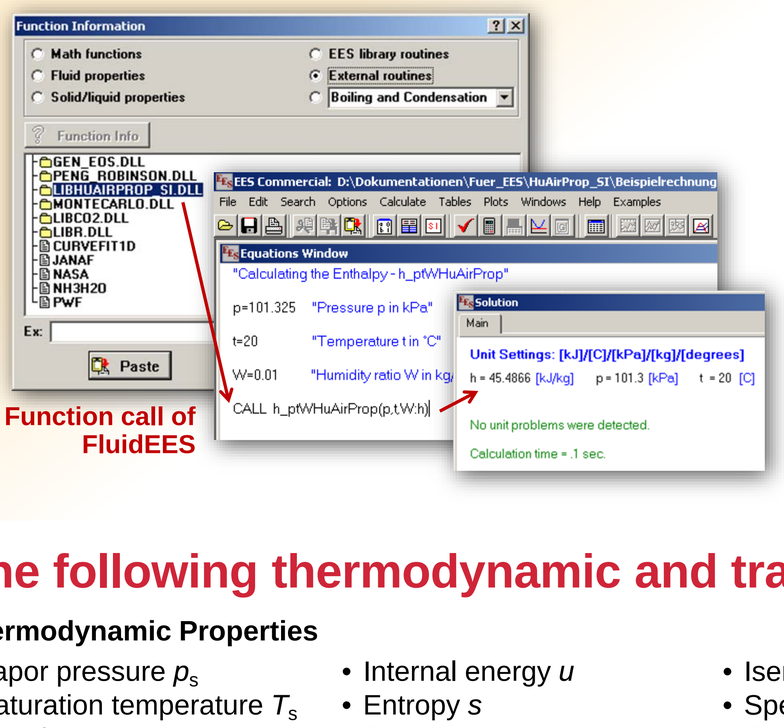
FluidMAT for Mathcad®



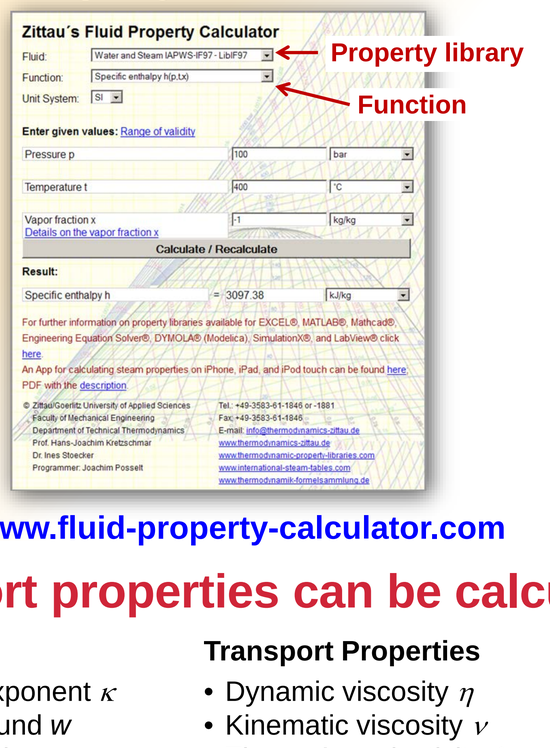
FluidDYM for DYMOLA®, SimulationX®



FluidEES for Engineering Equation Solver®

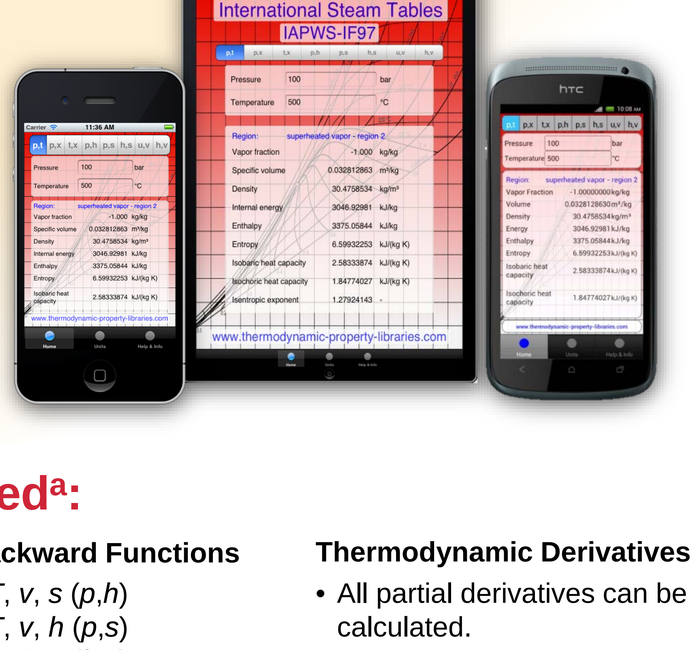


Online Property Calculator



www.fluid-property-calculator.com

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
- Isentropic exponent κ
- Speed of sound w
- Surface tension σ

Transport Properties

- 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.