Thermal Engineering with Maple

Application Collection

Psychrometric Modeling

Swamp Cooler

Adiabatic Mixing of Humid Air

Human Comfort Zone

Dew Point and Wet-Bulb Temperature of Air

Interactive Psychrometric Chart

Thermodynamic Cycles

Optimize a Rankine Cycle

Ideal Brayton Cycle

Organic Rankine Cycle

Turbine Analysis

Efficiency of a Rankine Cycle

Isothermal Compression of Methane

Adiabatic Compression of Methane

Refrigeration

Rate of Refrigerant Boiling

Miscellaneous

Heat Transfer

Combustion and Rocketry

Monomethylhydrazine-Dinitrogen Tetroxide Rocket

Vapor-Liquid Equilibria

Water-Ethanol

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