



Energy Balance – Closed Systems

Energy Rate Balance – Closed

Energy Rate Balance – Steady State

Energy Balance – Power Cycle

Thermal Efficiency – Power Cycle

Energy Balance – Refrigeration/Heat Pump Cycle

Coefficient of Performance – Refrigeration

Coefficient of Performance – Heat Pump

Closed System Entropy Balance

Steady State Control Volume Entropy Rate Balance

Ideal Gas Relations – Constant Specific Heat ratio,  $k$ ,  $s_1=s_2$

Ideal Gas Relation for Entropy – Constant Specific Heat

Isentropic Efficiency Compressor & Pump

Isentropic Efficiency Turbine

Saturation Table – Property Relationship (use for  $v$ ,  $u$ ,  $h$ , &  $s$ )

Tds Relations

For more information, make an appointment for your course with one of our [content tutors](#). All <sup>sp</sup>appointments are available in-person at the Student