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The results are: $\rho(z) = a + bz + cz^2 = 1.20252 - 0.101674z + 0.0022375z^2$ for the unit of kg/m^3 , (or, $\rho(z) = (1.20252 - 0.101674z + 0.0022375z^2) \times 10^9$ for the unit of kg/km^3) where z is the vertical distance from the earth surface at sea level. At $z = 7 \text{ km}$, the equation would give $\rho = 0.60 \text{ kg/m}^3$.

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pressure is 100 kPa.

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State 1 State 2 Process path Property
B Property A FIGURE 2-13 A

process between states 1 and 2 and the process path. Çengel: Introduction to Thermodynamics and Heat

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process completely, one should

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specify the initial and final states of the process, as well as the path it follows, and the interactions with the surroundings.

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The efficiency of a cooking appliance is defined as the ratio of the useful energy transferred to the overall $\eta_{\text{combustion}} = \frac{W_{\text{net}}}{Q_{\text{in}}}$ $\eta_{\text{thermal}} = \frac{W_{\text{net}}}{Q_{\text{in}}}$ $\eta_{\text{generator}} = \frac{W_{\text{net}}}{Q_{\text{in}}}$ |

Introduction to Thermodynamics and Heat Transfer TABLE 3-1 The efficacy of different lighting systems
Efficacy, Type of lighting lumens/W
Combustion Candle 0.2 Incandescent Ordinary 6-20 Halogen ...

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