Example 2.9

Result

Final Volume

   0.004958

m^3

Final Temperature

   59.63

K

(a) Cooling at const Pressure Followed by Heating at const Volume

Heat Required

 - 1985.

J

Work Required

   1985.

J

Change in enthalpy

   0.

J

Change in Energy

   0.

J

(b) Heating at const Volume Followed by Cooling at const Pressure

Heat Required

 - 9923.

J

Work Required

  9923.

J

Change in enthalpy

  0.

J

Change in Energy

  0.

J

 Note : The Answer varies From That in the book because in Book 4956.44 has been rounded to 4958 which is absurd