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closed system - Thermodynamics
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6: Psychrometric Chart and
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Problem on 2nd Law of
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2 of 4: Cascade Refrigeration Cycle

Refrigeration Example 1
1st Law of Thermodynamics (open
system) -- Example 1
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Problems and Solutions, Problems
Chapter-7. Section-1: Engine
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[4cyl-4000rpm] A four-cylinder
four-stroke engine operates at
4000 rpm. The bore and stroke
are 100 mm each, the MEP is
measured as 0.6 MPa, and the

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thermal efficiency is 35%.
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[steam-9MPa] Steam is the working fluid in an ideal Rankine cycle. Saturated vapor enters the turbine at 9 MPa and saturated liquid exits the condenser at 0.009 MPa.

Engineering Thermodynamics:

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Problems and Solutions,
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Solved Problems:

Thermodynamics Second Law.

Mechanical - Engineering

Thermodynamics - The Second

Law of Thermodynamics. 1. Two

kg of air at 500kPa, 80°C expands

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adiabatically in a closed system until its volume is doubled and its temperature becomes equal to that of the surroundings which is at 100kPa and 5°C.

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Thermodynamic Properties 1. If

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An object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter?

Jupiter 22Moon c ft ft lbf-ft g
=75 g =5.4 g =32 sec sec lbf-
sec² c moon cmoon Jupiter Jupiter
c mg Wg10×32 W = m = = 59.26
lb gg5.4 mg 59.26×75 W = 139

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Problem: Given that the free energy of formation of liquid water is -237 kJ / mol , calculate the potential for the formation of hydrogen and oxygen from water. To solve this problem we must first calculate ΔG for the reaction, which is $-2 (-237 \text{ kJ / mol}) = 474$

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kJ/mol . Knowing that $\Delta G = -nFE$
o and $n = 4$, we calculate the
potential is -1.23 V .

*Thermodynamics: Problems and
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Mechanical - Engineering Problems

Thermodynamics - Basic

Concepts And Definitions. 1.A

turbine operating under steady flow conditions receives steam at the following state: Pressure 13.8bar; Specific volume 0.143 Internal energy 2590 KJ/Kg;

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Velocity 30m/s. The state of the steam leaving the turbine is:
Pressure 0.35bar; Specific Volume 4.37
Internal energy 2360KJ/Kg;
Velocity 90m/s.

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Substituting and multiplying by
the factor 109 for the density

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unity kg/km³, the mass of the atmosphere is determined to be $m = 5.092 \times 10^{18}$ kg

Discussion

Performing the analysis with excel would yield exactly the same result.

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thermodynamics. Next lesson.
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Please correct the efficiency in

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problem # 5 b to $.42 \times .7 = .294$.

My apologies on that silly
mistake!

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comprehensible treatment of
engineering thermodynamics

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second laws, gases,
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