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System Part 2 | First Law of  
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A. Çengel; Michael A. Boles. Uploaded  
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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 thermal efficiency is 35%.

Engineering Thermodynamics:

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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.

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Engineering Thermodynamics - The  
Second Law of Thermodynamics. 1.  
Two kg of air at 500kPa, 80 ° C

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expands 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.

Solved Problems: Thermodynamics  
Second Law

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(M. J. Moran & H. N. Shapiro)

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of 10 lbf on the moon, what would  
the same object weigh on Jupiter?  
Jupiter 22Moon c ft ft lbf-ft g =75 g

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= 5.4 g = 32 sec sec lbf-sec<sup>2</sup> c moon  
c moon Jupiter Jupiter c mg Wg 10 × 32  
W = m = = 59.26 lb gg 5.4 mg  
59.26 × 75 W = 139 ...

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Problem : Given that the free energy of formation of liquid water is  $-237 \text{ kJ / mol}$ , calculate the potential for the formation of hydrogen and oxygen from water. To solve this problem we must first calculate  $\Delta G$  for the

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reaction, which is  $-2 (-237 \text{ kJ / mol}) = 474 \text{ kJ / mol}$ . Knowing that  $\Delta G = -nFE^\circ$  and  $n = 4$ , we calculate the potential is  $-1.23 \text{ V}$ .

Thermodynamics: Problems and  
Solutions | SparkNotes  
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Thermodynamics First Law.

Mechanical - Engineering

Thermodynamics - Basic Concepts

And Definitions. 1. A turbine  
operating under steady flow

conditions receives steam at the

following state: Pressure 13.8 bar;

Specific volume 0.143 Internal energy



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2590 KJ/Kg; 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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engineering thermodynamics  
problems and solutions Substituting  
and multiplying by the factor 10<sup>9</sup> for  
the density unit kg/m<sup>3</sup>, the mass of  
the atmosphere is determined to be m

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$\approx 5.092 \times 10^{18}$  kg Discussion

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Please correct the efficiency in  
problem # 5 b to  $.42 \times .7 = .294$ . My  
apologies on that silly mistake!

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Al-Zaytoonah University of Jordan

P.O.Box 130 Amman 11733 Jordan

Telephone: 00962-6-4291511

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