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Lec 29, pt 1 of

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Example Problem

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PART 1 | Second

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Example 11st Law of Thermodynamics (open system) -- Example 1 Mechanical Engineering Thermodynamics - Lec 3, pt 4 of 5: Example Problem *Problem on Closed System Part 2 | First Law of*

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(Problem Solving using Steam Table) Problem 2 on Gas Turbines,

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Energy Balance
(1st Law),
Nozzle First Law
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problem solving
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THERMODYNAMICS

(5th Edition

)SOLUTION CHAPTER-5 , Q.No-5.2 to 5.3.

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contents: thermodynamics . chapter 01: thermodynamic properties and state of pure

substances.
chapter 02: work
and heat.
chapter 03:
energy and the
first law of
thermodynamics.
chapter 04:
entropy and the
second law of
thermodynamics.
chapter 05:
irreversibility
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Engineering
Thermodynamics:
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Chapter-7.
Section-1:
Engine
Terminology.
7-1-1

[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: Problems and Solutions, Chapter-7

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Engineering Thermodynamics: Chapter-9

Problems. 9-1-8 [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: Problems and Solutions, Chapter-9

Solved Problems: Thermodynamics Second Law. Mechanical - Engineering Thermodynamics - The Second Law of Thermodynamics.

1. Two kg of air

at 500kPa, 80°C 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 Fundamentals of Engineering Thermodynamics (Solutions Manual) (M. J. Moran & H. N. Shapiro)

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Thermodynamic Properties 1. If an object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter? Jupiter 22Moon c ft ft

lbm−ft g =75 g
=5.4 g =32 sec
sec lbf−sec2 c
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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*Thermodynamic
Properties
Solutions*

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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 ?G for

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

Thermodynamics: Problems and Solutions | SparkNotes

ermodynamics Solved Problems:

Basic Concepts and 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 13.8bar; Specific volume 0.143 Internal energy 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.

Solved Problems: Basic Concepts and Thermodynamics First Law

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density unity kg/km3, the mass of the atmosphere is determined to bem = 5.092×1018 kgDiscussion Performing the analysis with excel would yield exactly the Engineering Thermodynamics Problems And

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adiabatic
processes.
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thermodynamics.
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Thermodynamics
article. Up
Next.
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article.

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

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