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Chapter-10 Examples.
A Carnot vapor
refrigeration cycle is

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used to maintain a cold region at 0°F where the ambient temperature is 75°F . Refrigerant R-134a enters the condenser as saturated vapor at 100 lbf/in^2 and leaves as saturated liquid at the same pressure. The evaporator pressure is 20 lbf/in^2 . The mass flow rate of refrigerant is 12 lbm/s .

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Chapter-5 Problems. A
rigid tank of volume 10 m^3 contains
superheated steam at
 1 MPa and $400 \text{ }^\circ\text{C}$.
Due to heat loss to the
outside atmosphere,
the tank gradually
cools down to the
atmospheric
temperature of $25 \text{ }^\circ\text{C}$.
Determine (a) the heat

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transfer and (b) the entropy generated in the system's universe during this cooling process.

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chapter 02; work and

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heat. chapter 03:
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subject solving
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Calculator solves the
problem and outputs
the solution - specific
heat : 232.3 J/(kg*C),
quite close to table
value for specific heat
of silver. X nx =a
nsinn" x L # \$ % & '
(n=1) *!

Example Of Problem Solving In Thermodynamics

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3

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Problem : Calculate the potential of a concentration cell with anode concentration of 1 M and cathode concentration of 0.01 M at 75 °C. . Knowing the Nernst Equation and realizing that the temperature is not 25 °C, we write that: $E = E^{\circ} - (RT/nF) \ln Q$ E° for any concentration cell

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is zero so, after plugging in all the numbers we find that:
 $E = 0.035 \text{ V}$.

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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.

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Solution. First we must find the amount of heat released by the ethane. To do this, we calculate the number of moles of ethane gas using the ideal gas equation and multiply the molar heat of combustion by the number of moles. $\Delta H_{\text{combustion}} = 1437.17$ kJ/mol

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Thermodynamics

$$\left[n = \frac{PV}{RT} \right]$$
$$\left[n = \frac{0.95 \times 6.7}{0.08314 \times 298} \right] \left[n = 0.2569 \text{ mol} \right]$$

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Robert T. Balmer, in
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Properties 1. If an
object has a weight of
10 lbf on the moon,
what would the same

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object weigh on
Jupiter? Jupiter 22Moon
c ft ft lbm-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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