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odynamics||unit-1||
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based on Carnot
Cycle of power Gas
Cycle- Gas Power
Cycles -
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\u0026amp; Kinetics,

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~~Second Law of~~

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~~1st Law, 2nd Law,~~

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Worked example,

Nozzle ~~Example~~

~~Problems with Heat~~

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~~Entropy Example:~~

Evaluating work in
an ideal gas Carnot

cycle First Law of

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Thermodynamic
Workdone | PK Nag
| Exercise Question
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Physics Problem on
Carnot cycle,
Thermodynamics,~~

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Enthalpy of
formation
combustion

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Solved Problems on
Thermodynamics:-

Problem 1:-A
container holds a
mixture of three
nonreacting gases:
 n_1 moles of the
first gas with molar
specific heat at
constant volume C_{v1} , and so on. Find
the molar specific
heat at constant

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volume of the
mixture, in terms
of the molar
specific heats and
quantities of the
three separate
gases. Concept:-

Solved Sample
Problems Based On
Thermodynamics -
Study ...

The first law of

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thermodynamics –
problems and
solutions. 1. 3000 J
of heat is added to
a system and 2500
J of work is done by
the system. What
is the change in
internal energy of
the system? Known
: Heat (Q) = +3000
Joule. Work (W) =
+2500 Joule .
Wanted: the

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change in internal
energy of the
system. Solution :
The equation of the
first law of
thermodynamics

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SOLUTIONS

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PRACTICE
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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...

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Properties
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properties and

state of pure

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chapter 02: work

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chapter 04:
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chapter 05:
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Mechanical -
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Thermodynamics -
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1. Two kg of air at
500kPa, 80°C
expands
adiabatically in a
closed system until
its volume is

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doubled and its
temperature
becomes equal to
that of the
surroundings which
is at 100kPa and
5°C.

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Chapter-8
Problems. 8-1-5
[heat-8000kW] A
gas turbine power
plant operates on a
simple Brayton
cycle with air as
the working fluid.
The air enters the
turbine at 1 MPa
and 1000 K and
leaves at 125 kPa,
610 K. Heat is
rejected to the

Where To Download Ther surroundings at a rate of 8000 kW and air flow rate is 25 kg/s. Solutions

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Chapter-8
11th Physics : Heat
and
Thermodynamics -

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Thermodynamic
Processes - Solved
Example Problems
for Adiabatic

process EXAMPLE

8.18 We often have the experience of pumping air into bicycle tyre using hand pump.

Solved Example
Problems for

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Adiabatic process -
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years ago 26
minutes 49,385
views Please
correct the

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efficiency in
problem, # 5 b to
 $.42 \times .7 = .294$. My
apologies on that
silly mistake!
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Chapter 17. Work,
Heat, and the First

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The mathematical description of many interesting problems in thermodynamics and other areas of engineering involves ordinary differential equations (ODEs). In some cases, the ordinary

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differential
equations are
sufficiently simple
that an analytical
solution can be
derived.

Numerical Solution
to ODEs (Appendix
G) -
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is very important
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examinations
(NEET, JIPMER &
AIIMS). Thermal
equilibrium and
definition of
temperature (
Zeroth law of ...

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CHAPTER 8 :
Thermodynamics

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Thermodynamics
and $Q = 444.6) +$
 $91.0 = 771.1$

PROBLEM 4 Steam
at 3 MPa, 3000C

leaves the boiler
and enters the high-
pressure turbine (in
a reheat cycle) and
is expanded to 300
kPa. The steam is
then reheated to
3000C and
expanded in the

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second stage
turbine to 10 kPA.
What is the
efficiency of the
cycle if it is
assumed to be
internally revers-
QB

Chemical
Engineering at the
University of
Florida-Home

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Solved Problems on
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Chapter-13

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Chapter-2
Problems. 2-1-4

[cone-invert] A
conical tank of
base diameter D
and height H is
suspended in an
inverted position to
hold water.

Engineering
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Problems And

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Directionality of Pro
cesses/Spontaneity

128. 3.2 Reversible

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(Revisited) and
their Relationship
to Directionality
129. 3.3 Entropy,
the
Thermodynamic
Property 131

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Example of Carnot
Efficiency -

Problem with

Solution

Engineering

Thermodynamics:

Chapter-7

Problems. 7-2-3

[$t_{\max} = 1000\text{K}$] An

air standard Carnot
cycle is executed in

a closed system

between the

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temperature limits
of 300 K and 1000
K. The pressure
before and after
the isothermal
compression are
100 kPa and 300
kPa, respectively.
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Chapter-7

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Carnot Cycle

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Chapter 6:

Thermodynamics is

a very important

chapter and the

students will have

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to thoroughly understand the concepts discussed here. Besides that, you also need to solve the exercise solutions to test your conceptual knowledge.

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