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02: work and heat.

chapter 03: energy and

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chapter 04: entropy and
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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 2590 KJ/Kg; Velocity 30 m/s.

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Relevant exam questions

Questions 4 and 5 are
exam-standard

questions. You should
also now be able to
successfully attempt Q2

on the May 2013 and
May 2014 papers for
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Thermodynamics. The
University does not
release solutions to past

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exam questions, but
numerical answers are:
2013 (b) $Q_{out}=500\text{kJ}$,
max $\eta = 37.1\%$ 2014 (a)
57.3%, (b) 54.0%

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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%.

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exams. The short study
notes for

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available in one place that
you can refer for GATE,
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preparation as well.

Thermodynamics is an
important branch of
physics, thus it carries a
good number of marks in

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facts 4

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1) The availability of heat energy (A) = 2064.85 KJ.

2) Unavailable heat

(U.A) = 935.15 KJ. 3. Air

in a closed vessel of fixed volume 0.15 m³ exerts pressure of 12 bar at 250

° C. If the vessel is

cooled so that the

pressure falls to 3.5 bar ,

determine the final

pressure, heat transfer

and change of entropy.

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Second Law

The methodical rather than rigid problems solving techniques are enumerated in details to encourage the students to develop a feel for importance of thermodynamics.

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AUDIENCE: B.Tech

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students of Aerospace
Engineering, Mechanical
Engineering, Chemical
Engineering,
Metallurgical
Engineering and Mining
Engineering.

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The user gets the
feedback about the
choice they make, and

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can also seek a hint to answer the question. Since we did not have a fair coverage of some of the topics, three more teachers joined the original group in 2009 to expand coverage of the topics for the FE examination, especially for the General Engineering exam.

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+50 Solved Problems to
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and Understand
Concepts Better What
you'll learn Identify the
basic principles of
thermodynamics
Analyze some steady-
flow engineering devices

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such as nozzles,
compressors, turbines,
throttling valves, mixers,
and heat exchangers

Evaluate work, heat
transfer and power in
processes Understand
entropy concept and the
2nd law of
thermodynamics, and
apply them to practical
problems Requirements
Students ...

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To enhance the understanding of thermodynamics principles and their relevance to the problems of humankind; provide the student with experience in applying thermodynamic principles to predict

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physical phenomena and
to solve engineering
problems. Description: ...
Exams: Three exams, one
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Two theme problems will
be used throughout the
course to demonstrate
the relevance of

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thermodynamics and the
connectedness of the
topics covered. Theme
Problem #1: Jet Aircraft
Engine. Theme Problem
#2: Household
Refrigerator

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fundamental subject in
the stream of Mechanical
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These are older

problems; most of them

have solutions.

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PhD candidates should demonstrate understanding of the thermodynamic topics listed below by using them to formulate and solve complex engineering problems based on real world challenges, critically

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analyze solutions and
make fact based
arguments. The
fundamentals covered in
the exam are those
typically covered in an
undergraduate
thermodynamics course,
and candidates should
expect questions where
the solution ...

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