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Mechanical Engineering Thermodynamics - Lec 21, pt 1 of 5: Example - Simple Rankine

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Cycle Rankine And

Cycle Example 1

Topic:1.4

Problems on

rankine cycle

~~Rankine Cycle~~

~~Examples~~

~~Thermodynamics~~

~~Rankine Cycle~~

~~Example Lesson:~~

Ideal Rankine

Cycle Example

Problem Solve

Rankine cycle

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all questions and solutions by these 5 easy steps (hindi)

Lecture 05:

**Problem Solving
(Rankine Cycle)**

*Regenerative
Rankine Cycle |
Problem Solving
| Thermodynamics*

~~how to solve
Rankine cycle
problem~~

~~Numerical on~~

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~~Rankine cycle and reheat cycle in hindi Lec 13:~~

~~Examples of regenerative Rankine cycle~~

RANKINE CYCLE (Simple and Basic)

How does a Thermal power plant work ?

Reheat Rankine cycle ~~How to Use~~

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~~Steam Tables And~~

~~Group 12~~

~~Question 10 32~~

~~Ideal Reheat~~

~~Ranking Cycle~~

Solving a Steam
Turbine Problem

~~How can we~~

~~increase the~~

~~rankine cycle~~

~~efficiency?~~

Why use

superheat,

reheat, and

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regeneration in Rankine cycle
Rankine Reheat

problem1

~~Mechanical~~

~~Engineering~~

~~Thermodynamics~~

~~Lec 22, pt 2 of~~

~~3: Combined~~

~~Cycle — Brayton~~

~~Rankine~~

~~Numerical~~

~~Problem: Reheat~~

~~Rankine Cycle~~

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Lec 8: Examples of reheat Rankine cycle

Example Problem

- Rankine Cycle

(1) - Simple

Rankine Cycle

~~Rankine cycle~~

~~problem with~~

~~solution.~~

Thermodynamics :

Ideal and non-

ideal Rankine

cycle, Rankine

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cycle with reheat
reheating (34 of 51) *SIMPLE*

RANKINE CYCLE

(2) How to solve Rankine cycle questions (solved example by using STEAM TABLE)

Problem 1 based on Carnot Cycle of power Gas Cycle- Gas Power Cycles -

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Thermodynamics

~~Rankine Cycle
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Example of
Rankine Cycle -
Problem with
Solution. Let
assume the
Rankine cycle,
which is the one
of most common
thermodynamic
cycles in

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thermal power plants. In this case assume a simple cycle without reheat and without with condensing steam turbine running on saturated steam (dry steam). In this case the turbine operates at steady state

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Rankine Cycle
with inlet And
conditions of 6
MPa, $t =$
275.6°C, $x = 1$
(point 3).

~~Example of
Rankine Cycle
Problem with
Solution~~

Problem 4: 2 A
reheat Rankine
cycle using
water as the

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working fluid operates between the pressure limits of 7.5 kPa and 17.0 MPa. Steam is superheated to 550 °C before it is expanded to the reheat pressure of 4.0 MPa.

~~Rankine Cycle~~

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Cycle Practice Problem

Solutions. 1.

Given a Rankine cycle with reheat operating with the following conditions:

Boiler Exit

Conditions: 10

MPa, 600C, and 7

kg/s. Reheat Leg

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Exit Conditions:

1.6 MPa and
600C. Condenser

Operating

Pressure: 30

kPa. You may

assume all

devices are

ideal.

~~Untitled [www.egr
r.msu.edu]~~

Rankine Cycle

Problems And

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Example of Rankine Cycle - Problem with Solution Let assume the Rankine cycle , which is the one of most common thermodynamic cycles in thermal power plants. In this case assume a

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simple cycle
without reheat
and without with
condensing steam
turbine running
on saturated
steam (dry
steam). Example
of Brayton Cycle
- Problem with
Solution

~~Rankine Cycle
Problems And~~

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Rankine Cycle
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Example of Rankine Cycle - Problem with Solution Let assume the Rankine cycle , which is the one of most common thermodynamic cycles in

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thermal power
plants. In this
case assume a
simple cycle
without reheat
and without with
condensing steam
turbine running
on

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Watch this

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PART-2 HOW TO SOLVE RANKINE CYCLE QUESTIONS

(SOLVED EXAMPLE) WITH STEAM TABLE

<https://youtu.be/Plw0vDOjBI4>

Follow this link to join my WhatsApp gr...

~~Solve Rankine cycle all questions by~~

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~~these 5 easy steps . . .~~

water as the working fluid is considered the work solution to rankine cycle problem on slides problem in a ideal rankine cycle the steam at the turbine inlet is at

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14mpa and 800c
the pressure in
the condenser is
5kpa calculate
the thermal
efficiency
assumptions 1
isentropic
conditions
between point 1

~~Ideal Rankine
Cycle Problems
With Solutions~~

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One approach to solving cycle problems of this nature is to work your way around the cycle until you have evaluated all the properties to complete the table shown above. Then, you can go back and

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Problems And Solutions File
apply the 1st Law to each process in the cycle to evaluate Q and W as need. That is the approach I will take.

~~Example 9B — 1:
Ideal Rankine
Cycle Efficiency
as a ...~~

rankine cycle

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problems and solutions file that we will utterly offer.

It is not a propos the costs. It's virtually what you compulsion currently. This rankine cycle problems and solutions file, as one of the

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sellers here
will utterly be
accompanied by
the best options
to review.

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(3) A

regenerative
cycle, with an
open feedwater

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heater operating at the pressure where steam becomes saturated vapor.

(4) A regenerative cycle, with a closed feedwater heater operating at the pressure where steam becomes saturated vapor.

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Problems 38. And

Rankine cycle

SOLUTION (1)

Referring to Figure 38, the steam tables show that AtP= 3.5 kPa, s

~~Chemical Engineering at the University of Florida Home Solutions~~

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example of rankine cycle problem with solution let assume the rankine cycle which is the one of most common thermodynamic cycles in thermal power plants in this case assume a simple cycle

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without reheat
and without with
condensing steam
turbine running
on saturated
steam dry steam

~~Ideal Rankine
Cycle Problems
With Solutions~~
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Rankine Cycle

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Chemical Engineering at the University of Florida-Home (3) A

regenerative cycle, with an open feedwater heater operating at the pressure where steam becomes

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saturated vapor

(4) A

Solutions File

regenerative

cycle, with a

closed feedwater

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~~Cycle Problems~~

~~And Solutions~~

~~File~~

blank brain

presenting you

the regenerative

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rankine cycle in a unique way and to make it easy to understand one question is also discussed in the easiest way possible. I hope you people will like ...

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