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heat transfer. Based on EGR 2103
Statics ...

Thermodynamics: Humidity, Enthalpy of air/water vapor mixtures, Dew point (44 of 51)

0:02:25 - Specific (or absolute) humidity

0:10:08 - Relative humidity 0:19:33 -

Enthalpy of dry air/water vapor mixtures

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0:34:22 ...

***Thermodynamics - An Engineering
Approach***

***Thermodynamics: An Engineering
Approach***

Thermodynamics

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Thermodynamics

Mechanical Engineering

Thermodynamics - Lec 3, pt 4 of 5:

Example Problem Constant-pressure process (heating) in a piston-cylinder device. Problem source: Q2.50, **Cengel** and Boles, **Thermodynamics**, 3rd ...

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Mechanical Engineering

Thermodynamics - Lec 5, pt 3 of 3: Example - Uniform Flow Process

Charging an insulated, rigid, evacuated tank with atmospheric air. Problem source: Q4.98, **Cengel** and Boles, **Thermodynamics**, ...

Thermodynamics: Dehumidification

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***by cooling, Evaporative cooling,
Cooling towers (48 of 51)*** 0:02:59 -
Dehumidification by cooling (continued)
0:12:25 - Example: Dehumidification by
cooling 0:31:00 - Evaporative cooling ...

***Mechanical Engineering
Thermodynamics - Lec 23, pt 4 of 4:
Example - Ideal Vapor-Compression***

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Problem source: Q10.14, **Cengel** and
Boles, **Thermodynamics**, 3rd **Edition**.

Mechanical Engineering
Thermodynamics - Lec 29, pt 1 of 6:
Psychrometric Chart and Example
Problem Problem / Chart Data Source:
Cengel and Boles Q13.35, Fig. A-33, 3rd
Edition.

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Thermodynamics: Review of midterm exam, Maxwell relations

(39 of 51) 0:00:15 - Discussion of
midterm exam 0:01:33 - Solution to Otto
cycle midterm problem 0:13:05 -
Solution to Brayton cycle midterm ...

Thermodynamics, PV Diagrams, Internal Energy, Heat, Work,

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Isothermal, Adiabatic, Isobaric, Physics This physics video tutorial explains the concept of the first law of **thermodynamics**. It shows you how to solve problems associated ...

***Mechanical Engineering
Thermodynamics - Lec 19, pt 2 of 5:
Ideal Rankine Cycle***

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Mechanical Engineering Thermodynamics - Lec 20, pt 2 of 7: Rankine Cycle with Reheat

Rankine cycle with superheat and reheat Schematic: 0:04 Equation Formulation: 1:47 Property Table & T-s Diagram: **6:55** Introduce and discuss Rankine cycle having ...

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Mechanical Engineering Thermodynamics - Lec 29, pt 3 of 6: Air-Conditioning Processes - Equations

***Use Psychrometric chart for cooling
moist air*** Schematic and Energy

Balance: 0:34 Solution Formulation: 1:27

Chart for Part (a) and State 1 hda: 2:50

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Part (b) and State 1 ...

Intro Rankine cycle review Carnot
vapor power cycle 0:01 Ts diagram for
Carnot 4:11 ideal Rankine cycle 9:22 Ts
diagram for Rankine 12:17 ...

Rankine Cycle working principle

Rankine cycle or vapor power cycle is

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the ideal **thermodynamic** cycle on which most of the **thermal** power plant works. In Rankine ...

Lecture - 34 Psychrometry

Refrigeration and Air Conditioning.

**Lec-6 Property of Pure Substance,
Steam Table** Lecture Series on Applied

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Thermodynamics for Marine Systems
by Prof.P.K. Das, Department of
Mechanical Engineering, ...

***Thermodynamics: Review of
thermodynamic cycles, Gas power
cycles, Otto Cycle (28 of 51)*** 0:02:05
- Review of heat engine cycle,
thermodynamic efficiency 0:08:07 -

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Review of refrigeration cycle, coefficient of performance ...

Mechanical Engineering

Thermodynamics - Lec 9, pt 5 of 5:

Example - Entropy Generation Air

Comp Problem source: Q6.167, **Cengel** and Boles, **Thermodynamics**, 3rd **Edition.**

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Thermodynamics: Otto cycle, Diesel cycle (29 of 51) 0:01:17 - Processes and **thermodynamic** efficiency for Otto cycle (continued from last lecture)
0:10:53 - Example: Otto cycle with ...

Thermodynamics : Ideal and non-ideal Rankine cycle, Rankine cycle with reheating (34 of 51) 0:01:31 -

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Review of ideal simple Rankine cycle
0:08:50 - Process equations and
thermodynamic efficiency for ideal
simple ...

Mechanical Engineering
Thermodynamics - Lec 28, pt 6 of 7:
Example - Air-Vapor Mixture Problem
Source: Q. 13.14, **Cengel** and Boles, 3rd

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Ed.

***Thermodynamics : Rankine cycle
with reheating, Feedwater heaters
(35 of 51) 0:02:32 - Process equations
and **thermodynamic** efficiency for ideal
Rankine cycle with reheating 0:07:36 -
Non-ideal Rankine ...***

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

Problem source: Q9.14, **Cengel** and
Boles, **Thermodynamics**, 3rd **Edition**.

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