Thermodynamics Final Exam

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Thermodynamics Final Exam

ME 200 Thermodynamics 1 Spring 2020 – Final Exam
ME 200 Thermodynamics 1 Spring 2020 – Final Exam 1 INSTRUCTIONS • This is an open book and open notes exam You cannot use any internet resources or cannot communicate with other students during the exam • This is a 120-minute exam that must be completed within a …
FINAL EXAM, THERMODYNAMICS I Show All Work Do Not ...
FINAL EXAM, THERMODYNAMICS I Show All Work Do Not Write on This Sheet 1 (20 points) A 24-m high 200-m2 house is maintained at 22ºC by an air-conditioning system that has a COP of 32 It is estimated that the kitchen, bath, and other ventilating fans of the house discharge a houseful of conditioned air once every hour
ME 24-221 Thermodynamics I
ME 24-221 Thermodynamics I Solution for the Final Exam Fall 2000 December 19, 2000 1 Given: 5kg of water; State 1: P1 = 100 kPa, T1 = 15 oC (= 28815 K) State 2: T2 = 60 oC (=33315 K) Surroundings at 25oC (29815 K) 500 kJ of work is done on the water, which remains liquid throughout the process
Eng3901 - Thermodynamics I: Sample Final Exam Questions 1 ...
Eng3901 - Thermodynamics I: Sample Final Exam Questions 2 2 It is proposed that an air compressor be designed to operate in a polytropic process with n = 1:2 The compressor would intake 10 kg/s of air at 100 kPa (abs) and 300 K, and produce two exit streams: 2 kg/s at 400 kPa and 8kg/s at 800 kPa The proposed power input is 14 MW
NAME: COURSE 3.20: THERMODYNAMICS OF MATERIALS ...
Materials at Equilibrium G Ceder Fall 2000 NAME:_____ COURSE 320: THERMODYNAMICS OF MATERIALS FINAL EXAM, Dec 18, 2000

5.60 Thermodynamics & Kinetics Spring 2008 For information ...

560 Final Exam Review 1 Phase Equilibria- 2 components a Drawing P-x,y and T-x,y diagrams 2 Ideal and Non Ideal Solutions a Raoult's Law, Henry's Law, Dalton's Law

OldFinalExamAns - egr.msu.edu

ME 201 Thermodynamics 1 ME 201 Thermodynamics Old Final Exam Answers Directions : Open book, open notes Work all four problems Problems are equally weighted Problem 1 Consider applying our Carnot heat engine approach to a biological system, specifically, a hunting cheetah

Basic Thermodynamic Formulas (Exam Equation Sheet)

Basic Thermodynamic Formulas (Exam Equation Sheet) Control Mass (no mass flow across system boundaries) Conservation of mass: □= □□□□□□□□

Chapter 19 Chemical Thermodynamics

Chemical Thermodynamics Example 92 The element mercury, Hg, is a silvery liquid at room temperature The normal freezing point of mercury is –389ºC, and its molar enthalpy of fusion is ΔHfusion = 229 kJ/mol What is the entropy change of the …

Thermodynamics FE Review Session February 24, 2015

Clausius Inequality For cycles (S = 0), we can write: Increase of entropy principle requires that total change in entropy of the universe must always be positive gen bb QQ S TT gen tot, al total system surround ngsi S SSS Results from applying the

Physics 5D - Heat, Thermodynamics, and Kinetic Theory

6 Nov 4! Midterm Exam (in class, one page of notes allowed) 7 Nov 18 The 2nd Law of Thermodynamics, Heat Pumps!! 203-205 8 Nov 25! Entropy, Disorder, Statistical Interpretation of 2nd Law 206-2010! 9 Dec 2 ! Thermodynamics of Earth and Cosmos; Overview of the Course 10 Dec 11 Final Exam (5-8 pm, in class, two pages of notes allowed)

Chemistry 366 Thermodynamics FINAL Exam MAY 15, 2008 ...

Thermodynamics FINAL Exam MAY 15, 2008 Name _____ Full credit will be given to correct answers only when ALL the necessary steps are shown DO NOT GUESS THE ANSWER This is a closed book exam, and you are responsible to be sure that your exam has no missing pages 11 pages)

ME 311-103: Thermodynamics I - Digital Commons

Comprehensive Final Exam Attendance and Class Participation Your course grade will be determined as follows: Quizzes 5% Exam 1 30% Exam 2 30% Final Exam 30% Attendance & Participation 5% NOTE: The above is a tentative grading scheme It may be slightly readjusted if …

Wright State University Summer 2016 Department of ...

ME 3310: THERMODYNAMICS I, FINAL EXAM OPEN BOOK, CLOSED NOTES, SHOW ALL WORK FOR PARTIAL CREDIT Problem 1: (10 points) A heat pump with refrigerant R-134a as the working fluid is used to keep a space at 25°C by absorbing heat from geothermal water that enters the evaporator at 50°C at a rate of 0065 kg/s and leaves at 40°C

Spring 1433 H. Final Exam. Property Tables are allowed.

Subject: Thermodynamics (I) MEP261 Time: 2 hr Group: ZA Spring 1433 H Final Exam Property Tables are allowed Question (3) (3 Marks) A Carnot heat engine receives 800 kJ of heat from a source of unknown temperature and produces 400

LaGuardia Community College City University of New York ...

Text: Thermodynamics, An Engineering Approach, Cengel, YA and Boles, MA McGraw-Hill, New York, 7th ed Grading Final Exam (30%), Midterm (30%), Research Paper (15%), Quizzes & Homework (15%), EPortfolio (10%) WEEK CHAPTER TOPICS 1 1 INTRODUCTION AND CONCEPTS The

thermodynamics system and the control volume,

Thermodynamics - engineering.wayne.edu

Thermodynamics Problem 1 Air enters the evaporator section of a window air conditioner at 100kPa and 30C with a volumetric flow rate of 6 m3/min Refrigerant 134a at 120kPa and a quality of 03 enters the evaporator at a rate of 25kg/min and leaves as a saturated vapor at the same pressure

Physics 2541: Thermodynamics and Statistical Mechanics

The grades for this course will be based on homework (30%), one midterm (30%), and the final exam (40%) The final exam also counts as part of the Graduate Comprehensive Examination Change of Classes See announcement Homework Note: Please visit the "Homework" folder on the CourseWeb Main page of this course for assignments and solutions!

Kinetics, and Statistical Mechanics Syllabus: Fall ...

The final exam is 1:30 pm - 3:30 pm, Wednesday, December 20, 2017 Under no conditions will it be possible to reschedule the final exam, nor can that exam somehow be dropped or otherwise substituted Grading: Each of the 3 in-term exams during the semester will be worth 120