

Thermodynamics 1

Final exam

Thermal physics

QUESTION NO. 1 (20 points)

- What is meant by an ideal gas?
- Carbon dioxide gas is contained within a piston cylinder device initially at 20°C and $0.24\text{m}^3/\text{kg}$. It undergoes an isothermal process to state 2, where the specific volume is $0.12\text{ m}^3/\text{kg}$. It is then expanded at constant pressure to state 3, where the specific volume is $0.36\text{m}^3/\text{kg}$. Determine the initial pressure and the final pressure and temperature. Calculate the amount of work done and heat transfer through each process, in J/kg .

QUESTION NO. 2 (20points)

- A gas mixture with the partial pressure of its components given as follows:

Mixture component	Partial pressure kPa
	100
O_2	80
H_2O	20

Determine for this mixture:

- The apparent molecular weight (M_m).
 - The gas constant (R_m).
 - The specific heat at constant pressure (c_{pm}).
 - The specific heat at constant volume (c_{vm}).
 - The specific heat ratio (γ_m).
- Propanol ($\text{C}_3\text{H}_7\text{OH}$) is burned with 50 percent excess air. Write the balanced reaction equation (or complete combustion and determine the air-to-fuel ratio, on mass basis.

QUESTION NO. 3 (15 points)

- Explain the components of the steam power plant and apply the first law of thermodynamics on the whole cycle as well as on every component.
- Steam flows steadily through an adiabatic turbine. The inlet conditions of the steam are 10 MPa , 450°C , and 80 m/s and the exit conditions are 10 kPa , 92 percent quality, and 5m/s . The mass flow rate of the steam is 12 kg/s . Determine, the power output and the turbine inlet and exit cross sectional area.

Thermodynamics Final Exam

Ying-Ying Zheng



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Annual Catalogue United States Air Force Academy, 1985 United States Air Force Academy United States Air Force Academy, **Schaums Outline of Thermodynamics for Engineers, Fourth Edition** Merle C. Potter, Craig W. Somerton, 2019-10-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Tough Test Questions Missed Lectures Not Enough Time Fortunately there's Schaum's More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills Schaum's Outline of Thermodynamics for Engineers Fourth Edition is packed with four sample tests for the engineering qualifying exam hundreds of examples solved problems and practice exercises to test your skills This updated guide approaches the subject in a more concise ordered manner than most standard texts which are often filled with extraneous material Schaum's Outline of Thermodynamics for Engineers Fourth Edition features 889 fully solved problems 4 sample tests for the engineering qualifying exam An accessible review of thermodynamics Chapter on refrigeration cycles Nomenclature reflecting current usage Support for all the major leading textbooks in thermodynamics Content that is appropriate for Thermodynamics Engineering Thermodynamics Principles of Thermodynamics Fundamentals of Thermodynamics and Thermodynamics I II courses PLUS Access to the revised Schaums.com website and new app containing 20 problem solving videos and more Schaum's reinforces the main concepts required in your course and offers hundreds of practice exercises to help you succeed Use Schaum's to shorten your study time and get your best test scores Schaum's Outlines Problem solved Thermodynamic Modeling and Experimental Investigation of the Mo-Si-B-Ti Quaternary System Ying Yang, 2004 Universities Handbook, 1985 Schaum's Outline of Thermodynamics for Engineers, 3rd Edition Merle C. Potter, Craig W. Somerton, 2013-11-15 More than 40 million sold in the Schaum's Outline series This ideal review for the thousands of students who enroll in thermodynamics courses Thermodynamics for Engineers is intended to help engineering students in their understanding of the discipline in a more concise ordered way than that used in standard textbooks which are often filled with extraneous material never addressed in the classroom This edition conforms to the more user friendly pragmatic approach now used in most classes The outline provides practice sets to allow students to work through the theory they've learned Material is organized by discrete topics such as gas cycles vapor cycles and refrigeration cycles Practice tests simulate the quizzes and tests given in class There are also 500 fully solved problems as well as 180 questions of the type that appear on the engineers qualifying exam This new edition boasts problem solving videos available online and embedded in the ebook version 500 fully solved problems Problem solving videos available online and embedded in the ebook version Chapter on refrigeration cycles Nomenclature reflects current usage Four sample tests

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