

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.

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United States Air Force Academy

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the United States Air Force Academy text.

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United States Air Force Academy United States Air Force Academy, **Annual Catalogue** United States Air Force Academy,1985 Annual Catalog - United States Air Force Academy United States Air Force Academy,1971 **Federal Register** ,1940 Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy,2002 **Proceedings of the International Conference on Advancing and Redesigning Education 2023** Mohd Fakhizan bin Romlie,Siti Haryani Shaikh Ali,Zolman Bin Hari,Meng Chew Leow,2024-07-13 This book is a compilation of conference papers presented at the International Conference on Advancing and Redesigning Education 2023 ICARE 23 It covers four main topics including Technology Enhanced Learning Innovative Curriculum and Program Offering Learning Beyond Classroom and Digital Campus This book presents the recent innovations and the authors practical experiences in teaching and learning and helps educational practitioners to enhance their teaching and learning **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 **Schaum's Outline of Thermodynamics for Engineers, 3ed** Merle Potter,2013-11-08 Suitable for engineers this title includes more than 500 solved problems examples and practice exercises to sharpen your problem solving skills of thermodynamics *Schaum's Outline of Thermodynamics for Engineers, 2ed* Merle Potter,Craig D. Somerton,2009-03-31 Tough Test Questions Missed Lectures Not Enough Time Fortunately for you

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colleagues Each CAT provides a brief self contained recipe including a description steps for implementation dos and don ts and relevant references Universities Handbook ,1985 **The Physics Queen** Omoviekovwa A. Nakireru

Ph.D.,2010-04-19 Book Summary Dr Elvira Williams a graduate of Howard University Washington DC started her academic career at North Carolina Central University In 1977 she received a doctorate degree in Physics from Howard University She became the first woman of African descent in the State of North Carolina to earn a doctorate degree in Physics Secondly she became the fourth African American woman in the United States to receive the award Her academic journey started from the country side city of Pollocksville to the heights of academics as Dean of the College of Arts and Sciences at Shaw University Raleigh North Carolina *The General Theory of Thermodynamics* Joseph Ellis Trevor,1927 Thermodynamics of the

Steam-engine and Other Heat-engines Cecil Hobart Peabody,1889 **From the Streets to the Stars** Henry J.

Dinenno,2011-10-26 This book is an inspirational humorous description of my life from a hard core juvenile delinquent to a top executive in a major corporation It begins on the streets of New York City and recounts the thievery property damage weapons and gang wars that defined my juvenile years It recalls a transitional phase where the death of my grandfather a move from New York my family my friends and the heavy handed brothers of Notre Dame High School gradually erased the influence of my juvenile years My work during the design phase of both Project Apollo and Space Shuttle and the unbelievably exciting launches at the Kennedy Space Center are covered with an insiders perspective on how these great teams dealt with successes and failures Throughout I reflect on how the experiences of my delinquent and transitional phases and my renewed relationship with God helped me to grow and to use my career successes to help others Finally I describe a special invitation to the Planetary Congress of the Association of Space Explorers in Vienna where I spent several days with more than 80 astronauts and cosmonauts that were truly the stars of my world A Short Story Luke Mesham,2011-11-04

Studying abroad in Germany embarks Paul Welch on an adventure he will never forget From the rigors and joys of learning a new language and set of friends to traveling in his free time the experiences of the year both open his eyes and confirm his deepest held beliefs The biggest adventure and reward of all though proves to be love A month before classes start Welch arrives in the Bavarian town of Erlangen to take an intensive language course at the Friedrich Alexander Universitt Here he makes quick friends with many other students throughout Europe One of with whom Maria he hits it off amazingly well But just as he is about to ask her out he learns that she is dating one of the other guys in the course Tommy Despite the odds against it Luke has the conviction that he and Maria will have their chance together Before everyone from the language course goes their separate ways Maria invites Paul to come to Sardinia during his spring break to visit her and another friend from the course He decides not to say anything to her at the time but makes a commitment to himself to follow through and go visit her in the spring Paul moves on to Darmstadt where he will be studying for the next year and slowly adapts to his new life Months pass friends are made new adventures are had While his zeal for visiting Maria has been tempered by the

question of how a short visit can lead to something lasting he follows through on the commitment to himself to go and visit her **Improving Student Retention in Higher Education** Glenda Crosling,Liz Thomas,Margaret Heagney,2008-11-19
Underpinned by research this book provides best practice examples of innovative and inclusive curriculum designed to improve student retention in HE **Thermodynamic Modeling and Experimental Investigation of the Mo-Si-B-Ti Quaternary System** Ying Yang,2004

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