

DEGREE : B.E./B.Tech. DEGREE EXAMINATION, NOV/DEC 2014.
 Branch : Mechanical Engineering (Tool Medium)
 Semester : III - R2013
 Code No./Subject : ME 6301 — ENGINEERING THERMODYNAMICS

KEY

1. When a system satisfies all modes of equilibrium, i.e., chemical, thermal and mechanical equilibria, then the system is said to be in Thermodynamic equilibrium.
2.
 1. Both are recognized only as they cross the boundary of a system. That is, both are boundary phenomena.
 2. Systems possess energy, but not heat or work. That is, heat and work are transient phenomena.
 3. Both are associated with a process, not with a state. Unlike properties, heat and work have no meaning at a state.
 4. Both are path functions. That is, their magnitudes depend on the path followed during a process as well as on the end states.

Solution Since the engine is supposed to produce 60 [kW] of work while absorbing 100 [kW] of heat, the efficiency is $60/100 = 0.6$. Now, a reversible engine working between the same reservoirs will have an efficiency of $\eta = 1 - (T_2/T_1) = 1 - (500/1000) = 0.5$. Thus, it is clear that the proposed engine is more efficient than a reversible one. Since, by the Carnot theorem, this is impossible we note that this engine cannot be constructed and investment in its development will be a waste of resources.

Solution A turbine is a flow system with the default assumptions of steady state operation ($\dot{E}_{CV} = 0 = \dot{S}_{CV}$), steady adiabatic flow ($\dot{m}_{CV} = 0 = \dot{Q}$), and negligible changes in the kinetic and potential energies ($\Delta e_k = 0 = \Delta e_p$).

1. Then, the relation for availability is

$$\dot{A} = \dot{B}_1 - \dot{B}_2 = \dot{m} \cdot [(h_1 - T_0 s_1) - (h_2 - T_0 s_2)] = \dot{m} \cdot [(h_1 - h_2) - T_0 (s_1 - s_2)]$$
2. Since the flow is isentropic, $s_1 = s_2$ and the relation for availability reduces to, $\dot{A} = \dot{m} \cdot [(h_1 - h_2)]$.
3. From the steam tables, at 7 [bar] and 250 [°C], $h_1 = 2954.0$ [kJ/kg] and $s_1 = 7.1066$ [kJ/kg·K] = s_2 (since the process is isentropic). Then from the standard formulae, $x_2 = 0.9582$ and $h_2 = 2581.0$ [kJ/kg].
4. Substituting the values in the above formula for availability and evaluating it gives, $\dot{A} = (5) \cdot (2954.0 - 2581.0) = 1865$ [kW].

Hnd Mechanical Thermodynamic Exam Paper 2014

John Grandfield



Hnd Mechanical Thermodynamic Exam Paper 2014:

Proceedings of the 2014 Energy Materials Conference The Minerals, Metals & Materials Society (TMS), 2015-04-15 This DVD contains a collection of papers presented at EnergyMaterials 2014 a conference organized jointly by The Chinese Society for Metals CSM and The Minerals Metals Materials Society TMS and held November 4 6 2014 in Xi an Shaanxi Province China With the rapid growth of the world s energy production and consumption the important role of energy materials has achieved worldwide acknowledgement Material producers and consumers constantly seek the possibility of increasing strength improving fabrication and service performance simplifying processes and reducing costs Energy Materials 2014 has provided a forum for academics researchers and engineers around the world to exchange state of the art development and information on issues related to energy materials The papers on the DVD are organized around the following topics Materials for Coal Based Systems Materials for Gas Turbine Systems Materials for Nuclear Systems Materials for Oil and Gas Materials for Pressure Vessels

Commonly Asked Questions in Thermodynamics Marc J. Assael, Geoffrey C. Maitland, Thomas Maskow, Urs von Stockar, William A. Wakeham, Stefan Will, 2022-08-05 CRC Press is pleased to introduce the new edition of *Commonly Asked Questions in Thermodynamics* an indispensable resource for those in modern science and engineering disciplines from molecular science engineering and biotechnology to astrophysics Fully updated throughout this edition features two new chapters focused on energy utilization and biological systems This edition begins by setting out the fundamentals of thermodynamics including its basic laws and overarching principles It provides explanations of those principles in an organized manner using questions that arise frequently from undergraduates in the classroom as the stimulus These early chapters explore the language of thermodynamics the first and second laws statistical mechanical theory measurement of thermodynamic quantities and their relationships phase behavior in single and multicomponent systems electrochemistry and chemical and biochemical reaction equilibria The later chapters explore applications of these fundamentals to a diverse set of subjects including power generation with and without fossil fuels for transport industrial and domestic use heating decarbonization technologies energy storage refrigeration environmental pollution and biotechnology Data sources for the properties needed to complete thermodynamic evaluations of many processes are included The text is designed for readers to dip into to find an answer to a specific question where thermodynamics can provide some if not all of the answers whether in the context of an undergraduate course or not Thus its readership extends beyond conventional technical undergraduates to practicing engineers and also to the interested lay person who seeks to understand the discourse that surrounds the choice of particular technological solutions to current and future energy and material production problems

Light Metals 2014 John Grandfield, 2016-12-23 The Light Metals symposia are a key part of the TMS Annual Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals volume has become the definitive

reference in the field of aluminum production and related light metal technologies The 2014 collection includes papers from the following symposia Alumina and Bauxite Aluminum Alloys Fabrication Characterization and Applications Aluminum Processing Aluminum Reduction Technology Cast Shop for Aluminum Production Electrode Technology for Aluminum Production Light metal Matrix Nano composites *State of the Art and Future Trends in Material Modeling* Holm Altenbach, Andreas Öchsner, 2019-10-23 This special anniversary book celebrates the success of this Springer book series highlighting materials modeling as the key to developing new engineering products and applications In this 100th volume of Advanced Structured Materials international experts showcase the current state of the art and future trends in materials modeling which is essential in order to fulfill the demanding requirements of next generation engineering tasks **The Reformation in Economics** Philip Pilkington, 2016-12-13 This book carves the beginnings of a new path in the arguably weary discipline of economics It combines a variety of perspectives from the history of ideas to epistemology in order to try to understand what has gone so wrong with economics and articulate a coherent way forward This is undertaken through a dual path of deconstruction and reconstruction Mainstream economics is broken down into many of its key component parts and the history of each of these parts is scrutinized closely When the flaws are thoroughly understood the author then begins the task of reconstruction What emerges is not a Grand Unified Theory of Everything but rather a provisional map outlining a new terrain for economists to explore The Reformation in Economics is written in a lively and engaging style that aims less at the formalization of dogma and more at the exploration of ideas This truly groundbreaking work invites readers to rethink their current understanding of economics as a discipline and is particularly relevant for those interested in economic pluralism and alternative economics Theory and Design for Mechanical Measurements Richard S. Figliola, Donald E. Beasley, 2014-12-15 Figliola and Beasley's 6th edition of Theory and Design for Mechanical Measurements provides a time tested and respected approach to the theory of engineering measurements An emphasis on the role of statistics and uncertainty analysis in the measuring process makes this text unique While the measurements discipline is very broad careful selection of topical coverage establishes the physical principles and practical techniques for quantifying many engineering variables that have multiple engineering applications In the sixth edition Theory and Design for Mechanical Measurements continues to emphasize the conceptual design framework for selecting and specifying equipment test procedures and interpreting test results Coverage of topics applications and devices has been updated including information on data acquisition hardware and communication protocols infrared imaging and microphones New examples that illustrate either case studies or interesting vignettes related to the application of measurements in current practice are introduced

The Best of COMVEC 2016 Select Technical Papers from the SAE Commercial Vehicle Engineering Congress Kevin Jost, Corina Sandu, Ryan Gehm, 2016-09-24 This special collection highlights some of the best technical papers that represent the breadth of the entire technical program Leading industry perspectives are reflected by the corporate

contributions that are included in this group along with a specific focus on connectivity the theme of the 2016 event The commercial vehicle industry has always been focused on improving efficiency These ten characteristic offerings present cutting edge trends technologies and solutions that provide greater benefit and the application of knowledge to solve problems and guide future innovation These studies are presented by experts from industrial governmental and academic partners on topics that include Autonomous commercial vehicles Computational fluid dynamics and aerodynamics for heavy duty on road applications Fuel and emissions efficiency of medium duty powertrain configurations Intelligently controlled air suspension systems Improving total cost of ownership by gains in thermal efficiency New simulation and testing techniques enabling next generation commercial vehicle technology The leadership team has focused on bringing in a broad mixture of participants to COMVEC to discuss current technologies and the future challenges of the commercial vehicle industry This first of its kind special publication draws on the strength of the event s program and features ten of the best technical papers from the SAE International Congress

150 technical questions and answers for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS web addresses to 220 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

Advances in Mechanics of Time-Dependent Materials Holm Altenbach,Julius Kaplunov,Hongbing Lu,Masayuki Nakada,2023-03-09 This book presents current trends in Mechanics of Time Dependent Materials It covers a number of cutting edge themes such as characterization of linear and nonlinear mechanical behavior of viscoelastic materials and their composites taking into consideration large deformations low moderate and large strain rates as well as failure and fracture phenomena The contributions are inspired by advanced applications in modern technologies such as injection molding and extrusion

Water Flow, Solute and Heat Transfer in Groundwater Alexander Yakirevich,2021-01-06 Groundwater is an essential and vital water resource for drinking water production agricultural irrigation and industrial processes Having a better understanding of physical and chemical processes in aquifers enables more reliable decisions and reduces investments concerning water management This Special Issue on Water Flow Solute and Heat Transfer in Groundwater of Water focuses on the recent advances in groundwater dynamics and it includes high quality papers that cover a wide range of issues on different aspects related to groundwater protection from contamination recharge heat transfer hydraulic parameters estimation well hydraulics microbial community colloid transport and mathematical models This integrative volume aims to

transfer knowledge to hydrologists hydraulic engineers and water resources planners who are engaged in the sustainable development of groundwater resources *Toward a New Dimension* Anne Marcovich, Terry Shinn, 2014 Over the course of the last thirty years the investigation of objects at the nano scale has rocketed Nanoscale scientific research has not only powerfully affected the amount and orientation of knowledge it has perhaps even more significantly redirected the ways in which much research work is carried out changed scientists methodology and reasoning processes and influenced aspects of the structure of career trajectory and the functioning of scientific disciplines This book identifies key historical moments and episodes in the birth and evolution of nanoscience discusses the novel repertory of epistemological concerns of practitioners and signals sociological propensities As Galileo s telescope explored the moon s surface four hundred years ago nano instrumentation now makes it possible to see the surface of single molecules Moreover practitioners are able to manipulate individual atoms and molecules at will to produce pre designed synthetic materials non existent in nature The combinatorial of heightened observational capacity and the tailoring of synthetic artificial materials exhibiting hitherto novel physical properties has widened and transformed the worlds of scientific knowledge and technical artefact This book invites the question to what extent does nanoscale scientific research constitute a kind of scientific revolution **Current Topics in**

Cellular Regulation Bernard L. Horecker, Earl R. Stadtman, 2014-06-28 Current Topics in Cellular Regulation Volume 2 presents the fundamental mechanisms involved in the regulation of diverse cellular activities including cellular differentiation intermediary metabolism and the transfer of genetic information This book provides information pertinent to the various aspects of cellular regulation Organized into eight chapters this volume begins with an overview of the occurrence of the enzyme in plants and microorganisms This text then examines the biosynthesis of aromatic amino acids and vitamins which is proving an interesting model system for the study of regulation Other chapters consider the control of cholesterol biosynthesis in normal tissues with emphasis on the pathologic implications of derangements of cholesterol feedback control This book discusses as well the aspects of the biogenesis of yeast mitochondria The final chapter deals with regulation in the pyrimidine biosynthetic pathway at the level of enzyme activity This book is a valuable resource for biochemists biologists and research workers **Nature's Teleological Order and God's Providence** Paul

Weingartner, 2014-12-11 The book defends that there is both teleological order design and chance in non living and in living systems of nature including man This is done by giving exact definitions of different types of order and teleological order on the one hand and of different types of chance on the other For their compatibility it is important to notice that any definition of chance presupposes some kind of order relative to that we can speak of chance Thus also in evolution which is some growth of some order and for which a detailed definition is given in chpt 13 chance and degrees of freedom play an essential role A further purpose of the book is to show that both the existing order and the existing chance in nature are compatible with a global teleological plan which is God s providence However concerning the execution of God s plan not everything is

done or caused by himself but God created things in such a way that they themselves can create something G del MAX PHIL A reason for that is that God is neither all causing nor all willing although he is almighty This is connected with the result of chpts 15 and 16 that also human freedom and evil are compatible with God s providence *100 technical questions and answers for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 100 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **Extremely Deformable Structures** Davide Bigoni,2015-06-05 Recently a new research stimulus has derived from the observation that soft structures such as biological systems but also rubber and gel may work in a post critical regime where elastic elements are subject to extreme deformations though still exhibiting excellent mechanical performances This is the realm of extreme mechanics to which this book is addressed The possibility of exploiting highly deformable structures opens new and unexpected technological possibilities In particular the challenge is the design of deformable and bi stable mechanisms which can reach superior mechanical performances and can have a strong impact on several high tech applications including stretchable electronics nanotube serpentine deployable structures for aerospace engineering cable deployment in the ocean but also sensors and flexible actuators and vibration absorbers Readers are introduced to a variety of interrelated topics involving the mechanics of extremely deformable structures with emphasis on bifurcation instability and nonlinear behavior both in the quasi static and dynamic regimes Essential and up to date theoretical numerical and experimental methodologies are covered as a tool to progress towards a satisfactory modeling of the nonlinear behavior of structures **Bruno Touschek's Extraordinary Journey** Giulia Pancheri,2022-09-20 This book tells the story of a unique scientific and human adventure following the life and science of Bruno Touschek an Austrian born physicist who conceived and built AdA the first matter antimatter colliding beam storage ring the ancestor of the Large Hadron Collider at CERN where the Higgs Boson was discovered in 2012 Making extensive use of archival sources and personal correspondence the author offers for the first time a unified history of European efforts to build modern day particle accelerators from the dark times of war ravaged Europe up to the rebuilding of science in Germany UK Italy and France through the 1950s and early 1960s This book the result of several years of scholarly research work includes numerous previously unpublished photos as well as original drawings by Bruno Touschek *Model-Based Reasoning, Abductive Cognition, Creativity* Emiliano Ippoliti,Lorenzo Magnani,Selene Arfini,2024-11-20 This book discusses

how scientific and other types of cognition make use of models abduction and explanatory reasoning in order to produce important innovative and possibly creative changes in theories and concepts Gathering revised contributions presented at the international conference on Model Based Reasoning MBR023 held on June 7 9 2023 in Rome Italy the book addresses various intertwined topics ranging from the epistemology and applications of models also concerning the problem of knowledge production and scientific methodology information visualization experimental methods and design to the analysis of their role in cognition decision making also with respect to social implications The problem of model based cognition is also illustrated taking advantage of recent results regarding problem solving abduction and logic paying attention to a critique of the dominant and received approaches to the aim of fostering new discussions and stimulate new ideas All in all the book provides researchers and graduate students in the fields of applied philosophy epistemology cognitive science and artificial intelligence alike with an authoritative snapshot of the latest theories and applications of model based reasoning

JOB INTERVIEW Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 282 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

International Aerospace Abstracts ,1999 Untersuchungen zur Resttragfähigkeit von gebrochenen Verglasungen Johannes Franz,2015-10-29 Im vorliegenden Band werden der Through Cracked Bending TCB Test und der Through Cracked Tensile TCT Test als zentrale Prüfmethoden zur Beurteilung des Resttragverhaltens von Verbundglasern wie VSG und TVG beschrieben Beide ermöglichen eine Klassifizierung der Zwischenschicht von VSG bei den Vergleich mit der im Bauwesen üblicherweise verwendeten PVB Folie und sind dem Haftzug und Haftscherversuch sowie den derzeit genutzten Testverfahren wie z B dem Pummeltest überlegen Für die Resttragfähigkeit kommt dem Delaminationsverhalten der Zwischenschicht im gebrochenen VSG das als Ablösevorgang der Folie vom Glas zu interpretieren ist eine besondere Bedeutung zu Dieses wird anhand von PVB Folien mit verschiedenen Haftgraden eingehend mit dem TCT Test bei unterschiedlichen Wegraten bei der Bestimmung ihrer jeweiligen Energiefreisetzungsrate experimentell untersucht wobei die Versuchsergebnisse mit Kohlenstoffzonenelementen der Methode der finiten Elemente abgebildet und beurteilt werden können

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