

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].

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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

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

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.

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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

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Bioclimatic Approaches in Urban and Building Design Giacomo Chiesa,2021-01-04 This book explores the bioclimatic approach to building design Constant innovations in the field are evident including the need to face climate changes and increase the local resilience at different scales regional urban architectural Differently from other contributions this book provides a definition of the bioclimatic design approach following a technological and performance driven vision It includes one of the largest collection of research voices on the topic becoming also a critical reference work for bioclimatic theory It is intended for architects engineers researchers and technicians who have professional and research interests in bioclimatic and in sustainable and technological design issues

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1. Understanding the eBook Hnd Mechanical Thermodynamic Exam Paper 2014
 - The Rise of Digital Reading Hnd Mechanical Thermodynamic Exam Paper 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Hnd Mechanical Thermodynamic Exam Paper 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hnd Mechanical Thermodynamic Exam Paper 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hnd Mechanical Thermodynamic Exam Paper 2014
 - Personalized Recommendations
 - Hnd Mechanical Thermodynamic Exam Paper 2014 User Reviews and Ratings
 - Hnd Mechanical Thermodynamic Exam Paper 2014 and Bestseller Lists
5. Accessing Hnd Mechanical Thermodynamic Exam Paper 2014 Free and Paid eBooks
 - Hnd Mechanical Thermodynamic Exam Paper 2014 Public Domain eBooks
 - Hnd Mechanical Thermodynamic Exam Paper 2014 eBook Subscription Services
 - Hnd Mechanical Thermodynamic Exam Paper 2014 Budget-Friendly Options
6. Navigating Hnd Mechanical Thermodynamic Exam Paper 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hnd Mechanical Thermodynamic Exam Paper 2014 Compatibility with Devices
 - Hnd Mechanical Thermodynamic Exam Paper 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hnd Mechanical Thermodynamic Exam Paper 2014
 - Highlighting and Note-Taking Hnd Mechanical Thermodynamic Exam Paper 2014
 - Interactive Elements Hnd Mechanical Thermodynamic Exam Paper 2014

8. Staying Engaged with Hnd Mechanical Thermodynamic Exam Paper 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hnd Mechanical Thermodynamic Exam Paper 2014
9. Balancing eBooks and Physical Books Hnd Mechanical Thermodynamic Exam Paper 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hnd Mechanical Thermodynamic Exam Paper 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hnd Mechanical Thermodynamic Exam Paper 2014
 - Setting Reading Goals Hnd Mechanical Thermodynamic Exam Paper 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hnd Mechanical Thermodynamic Exam Paper 2014
 - Fact-Checking eBook Content of Hnd Mechanical Thermodynamic Exam Paper 2014
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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14. Embracing eBook Trends
 - Integration of Multimedia Elements
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