

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

**Kevin Jost, Corina Sandu, Ryan Gehm**



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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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*Safety and Reliability of Complex Engineered Systems* Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7-10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas

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