



Mid Term Examination Fall 2021

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Course Title:	Thermodynamics			Course Code:	ME-238	Credit Hours: 2-1
Course Instructor:	Muhammad Imran			Programme (A+B)	BSEE	
Semester:	1st	Session	2021	Section:	Date:	03-1-2022
Time Allowed:	60 minutes			Maximum Marks:	30	
Student's Name:				Reg. No.	2021-EE-392	
Important Instructions / Guidelines: Read the question paper carefully and answer the questions according to their statements. Mobile phones are not allowed. Calculators must not have any data/equations etc. in their memory.						

Question #01 (CLO1, C2, PLO1)(3+2+5)

A: Discuss reversible work and derive its relation.

B: Explain first law of thermodynamics.

C: Unit mass of a fluid at a pressure of 3 bar, and with a specific volume of $0.18 \text{ m}^3/\text{kg}$, contained in a cylinder behind a piston expands reversibly to a pressure of 0.6 bar according to a law $p = c/v^2$, where c is a constant. Calculate the work done during the process and explain it on PV diagram.

Question #02 (CLO1, C2, PLO1)(3+2+5)

A: Explain and draw the property diagram.

C: What is dryness fraction. Discuss it for water and pure steam.

B: Calculate the specific volume, specific enthalpy, and specific internal energy of wet steam at 20 bar, dryness fraction is 0.8.

Question #03 (CLO1, C2, PLO1)(4+6)

A: Discuss and Calculate the work done for adiabatic process.

B: Air at 1.02 bar, 22°C , initially occupying a cylinder volume of 0.015 m^3 , is compressed reversibly and adiabatically by a piston to a pressure of 6.8 bar. Calculate the final temperature, the final volume, and the work done on the mass of air in the cylinder. Explain the process on PV diagram.

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XVle si cle Mih ly M rkus Calvin und Polen Gedankenfragmente in Verbindung mit einer Empfehlung Dr E A de Boer Calvin and Colleagues Propositions and Disputations in the Context of the Congr gations in Geneva Irena Backus Calvin s knowledge of Greek language and philosophy Randall C Zachman Crying To God on the Brink of Despair The Assurance of Faith Revisited Accounts and Papers Great Britain. Parliament. House of Lords,1847 **Calendar of State Papers: 1564-1565** Great Britain. Public Record Office,1870 **Theory and Applications of Satisfiability Testing - SAT 2018** Olaf Beyersdorff,Christoph M. Wintersteiger,2018-06-27 This book constitutes the refereed proceedings of the 21st International Conference on Theory and Applications of Satisfiability Testing SAT 2018 held in Oxford UK in July 2018 The 20 revised full papers 4 short papers and 2 tool papers were carefully reviewed and selected from 58 submissions The papers address different aspects of SAT interpreted in a broad sense including theoretical advances such as exact algorithms proof complexity and other complexity issues practical search algorithms knowledge compilation implementation level details of SAT solvers and SAT based systems problem encodings and reformulations applications as well as case studies and reports on findings based on rigorous experimentation They are organized in the following topical sections maximum satisfiability conflict driven clause learning model counting quantified Boolean formulae theory minimally unsatisfiable sets satisfiability modulo theories and tools and applications *Sessional Papers* Great Britain. Parliament. House of Commons,1894 *Calendar of State Papers, Foreign Series, of the Reign of Elizabeth: 1564-1565* Great Britain. Public Record Office,1870

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