

8. Given the following data for a fluid, what is its state at 40°C and 3 kPa?

Saturated property table

$T_s, ^\circ\text{C}$	P_s, kPa	$v_{f,s}, \text{m}^3/\text{kg}$	$v_{g,s}, \text{m}^3/\text{kg}$	$h_{f,s}, \text{kJ/kg}$	$h_{g,s}, \text{kJ/kg}$	$s_{f,s}, \text{kJ/(kg} \cdot ^\circ\text{K)}$	$s_{g,s}, \text{kJ/(kg} \cdot ^\circ\text{K)}$
40	7.38	.001008	19.52	167.57	2574.3	.5725	8.257
80	47.39	.001029	3.407	334.9	2643.7	1.1343	7.5645
120	198.5	.001060	.8919	503.71	2706.3	1.5276	7.1296

- (A) Saturated liquid
- (B) Superheated vapor
- (C) Compressed liquid
- (D) Saturated vapor

9. Using the same data of Problem 8, what is the fluid's entropy in kJ/(kgK) at 120°C and 80% quality?

- (A) 1.53
- (B) 6.009
- (C) 7.13
- (D) 28.8

10. A quantity of 55 m³ of water passes through a heat exchanger and absorbs 2,800,000 kJ. The exit temperature is 95°C. The entrance water temperature in °C is nearest to:

- (A) 49
- (B) 56
- (C) 68
- (D) 83

11. In any non-quasistatic thermodynamic process, the overall entropy of an isolated system will:

- (A) Increase and then decrease
- (B) Decrease and then increase
- (C) Stay the same
- (D) Increase only

12. The temperature-entropy diagram in the figure represents a:

- (A) Rankine cycle with superheated vapor
- (B) Carnot cycle
- (C) Diesel cycle
- (D) Refrigeration cycle



13. Ethane is burned in 150% theoretical air. Assume complete combustion and that the process takes place in atmospheric air. The air/fuel ratio in 150% theoretical air is most nearly:

- (A) 32 kg air/kg fuel
- (B) 28 kg air/kg fuel
- (C) 24 kg air/kg fuel
- (D) 16 kg air/kg fuel

14. There are 3 kg of air in a rigid container at 250 kPa and 50°C. The gas constant for air is 0.287 kJ/(kgK). The volume of the container, in m³, is nearest to:

- (A) 2.2
- (B) 1.1
- (C) 2.8
- (D) 3.1

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Michel A. Saad



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and Kinetic Theory Unit X Oscillations and Waves 24 Oscillations 25 Speed of Mechanical Waves Progressive Waves 26 Superposition of Waves Interference and Beats 27 Reflection of Waves Stationary Waves in Stretched Strings and Organ Pipes 28 Doppler's Effect Log Antilog Table Value Based Questions VBO Sample Paper Examination Paper Engineering Fundamentals for Professional Engineers' Examinations Lloyd M. Polentz, 1987 *Physics (2023-24 KVS/PGT)* YCT Expert Team, 2023 24 KVS PGT Physics Solved Papers Practice Book *General Questions of Thermodynamics* Shivendra Nandan, Prakash Sharma, Satyajeet Kant, Thermodynamics is the branch of physics that deals with the relationships between heat and other forms of energy In particular it describes how thermal energy is converted to and from other forms of energy and how it affects matter **Engineer-in-training Examination** James Warner Morrison, 1976 **Physics** Eugene Hecht, 1996 While the text covers the standard range of material from kinematics to quantum physics Hecht has carefully limited the math required to basic calculus and very basic vector analysis He omits obscure high level topics while focusing on helping students understand the fundamental concepts of modern day physics Calculus and vector analysis are both painstakingly developed as tools and then used only insofar as they illuminate the physics Hecht deliberately goes slowly justifies where each topic is going stops to take stock of where the students have been and points out the marvelous unity of the discourse Informed by a 20th century perspective and a commitment to providing a conceptual overview of the discipline this book is a return to basics Mechanical Discipline-specific Review for the FE/EIT Exam Michel A. Saad, 1997 The FE exam the first in the two part engineering licensing process is taken typically by upper level students or recent graduates in April or October This eight hour exam is closed book except for a handout provided in the examination room The exam is divided into morning and afternoon sessions The morning exam with 120 multiple choice problems is the same for everyone In the afternoon examinees must choose to take a discipline specific DS or a general exam each with 60 multiple choice problems The Discipline Specific Reviews are used to study for the afternoon DS exams **EIT, a Strategy for the Engineer-in-training Exam** Morton S. Fine, 1984 **EIT Review Manual** Michael R. Lindeburg, 1998 The best selling review book for the general Fundamentals of Engineering FE EIT exam New to this edition are coverage of new subjects within selected topic areas following the official exam hand out and more practice problems Every exam topic is reviewed and there are more than 1100 problems and a realistic 8 hour practice exam Solutions to all problems and the practice exam are included The EIT Review Manual features a money back guarantee from the publisher Schaum's 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

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