

Regular Physics 2nd Semester Study Guide

Unit 9 (Thermodynamics)

1. Define

Heat **Thermal energy, flows from higher temp to lower temp.**

Temperature **Average kinetic energy of particles**

1st law of thermodynamic **Change in internal energy is equal to the heat absorbed minus the work done by a system.**

2nd law of thermodynamics **Entropy always increases (not all heat can be converted to work)**

0th law of thermodynamics **Heat flows from higher temp to lower temp**

adiabatic system **No heat gained or lost. $Q=0$ so $\Delta U=W$**

2. How can a gas do work? What occurs when work is done on or by a gas? **By expanding or contracting (remember work equals force \times distance. No movement means no work).**

3. Describe entropy. How would an increase or decrease in entropy affect the arrangement of matter at the microscopic level? **Entropy is chaos, more spreading, less orderly configuration.**

4. How are work and entropy related? **Some energy to do work is always lost to entropy**

5. 3450 J of heat are required to raise the temperature of a chunk of copper from 23.0°C to 315°C. What is the mass of the copper? **0.0306-kg**

6. An aluminum can of mass 0.200-kg at 25°C is placed in a cooler and allowed to cool to 10°C. How much heat was removed from the can? **2700-J**

7. In a ballistic pendulum experiment a bullet is shot into a 400-g piece of wood.

a. If the bullet has a mass of 3.50 g and a speed of 225 m/s and it stops when it hits the wood, what is the change in kinetic energy of the bullet? **88.6-J**

b. If all that K.E. is converted to heat what is its final temperature when it comes to rest? ($c_{\text{wood}} = 7.33 \text{ J/kg}^\circ\text{C}$)? **30.2°C**

Unit 10 (Harmonic Motion and Sound)

1. Define

amplitude **displacement from equilibrium position**

frequency **times a revolution occurs in one second**

period **time to complete one revolution**

intensity **Power per unit area (loudness of a sound wave)**

wavelength **distance between successive identical points in a wave front.**

loudness **perception of intensity**

2. Describe wave interference and the conditions that lead to constructive and destructive interference.

3. According to the Doppler Effect how will the perceived frequency of a siren differ from the source as it approaches an observer? As it departs from an observer? **Is related to frequency (not loudness). When distance between source and observer is diminished the wave is squished increasing frequency.**

4. Explain the differences between longitudinal and transverse waves.

5. What factors influence the speed of sound? **Air temp, humidity, power of wave, density of medium**

6. A sound wave has a wavelength of 0.75 m and a speed of 340 m/s. What is the wave frequency?

7. A sound wave has a frequency of 250-Hz and a speed of 340 m/s. What is the wavelength?

8. The speed of sound in air is 340 m/s, what frequency does an observer hear if...

a) the source frequency is 1200 Hz, and the observer is moving away from a stationary source at 34 m/s?

b) the source frequency is 1440 Hz, and the observer is moving toward a stationary source at 26 m/s?

c) the source frequency is 550 Hz, and the source is moving away from the stationary observer at 110 m/s?

*9. You are on a train traveling at 105 km/h. You approach a stationary 455 Hz siren. What is frequency you hear? (use 340 m/s for speed of sound)

*10. You are on a train traveling at 55.0 km/h. You approach a bell. You hear a frequency of 725 Hz. What is the actual frequency of the bell?

Physics Second Semester Study Guide

RJ Alexander



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