

# Physics Study Guide

## Ch. 8 Transducers

1. A transducer is any device that \_\_\_\_\_
  - a. Converts one form of energy into another
2. Electrical energy from system is converted into sound during \_\_\_\_\_ ; sound pulse is converted into electricity during \_\_\_\_\_
  - a. Transmission; reflection
3. Describe the piezoelectric effect and the reverse piezoelectric effect.
  - a. Piezoelectric effect: property of any material to create a voltage when mechanically deformed or pressure applied
  - b. Reverse piezoelectric effect: materials changing shape when voltage applied
4. Explain the converted from/to relationship in the following transducer examples (converts from \_\_\_\_\_ to \_\_\_\_\_ )
  - a. Car engine
    - i. converts from chemical to motion
  - b. Electric motor
    - i. converts from electrical to motion
  - c. Light bulb
    - i. converts from electrical to light/heat
  - d. Muscle
    - i. converts from chemical to motion
5. Piezoelectric materials convert \_\_\_\_\_ into \_\_\_\_\_
  - a. Sound; electricity (and vice versa)
6. Another name for piezoelectric?
  - a. Ferroelectric
7. Some piezoelectric materials are found in nature such as quartz and tourmaline, but those commonly used in clinical transducers are \_\_\_\_\_ which are synthetic or man-made
  - a. Lead zirconate titanate or PZT
8. Other names for PZT in an ultrasound transducer
  - a. Ceramic, active element, crystal
9. What are the 7 basic transducer components?
  - a. Case
  - b. Electrical shield
  - c. Acoustic insulator
  - d. PZT or active element
  - e. Wire
  - f. Matching layer
  - g. Backing material
10. What are two purposes that the case serves?

# High School Physics Final Exam Study Guide

**Arturo Cuomo**



## **High School Physics Final Exam Study Guide:**

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **High School Physics Final Exam Study Guide**

In a global inundated with displays and the cacophony of instant communication, the profound power and mental resonance of verbal beauty frequently disappear into obscurity, eclipsed by the constant onslaught of sound and distractions. However, set within the lyrical pages of **High School Physics Final Exam Study Guide**, a interesting work of fictional elegance that pulses with natural emotions, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this exciting opus books visitors on a mental odyssey, gently revealing the latent potential and profound affect stuck within the elaborate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is main subjects, dissect its interesting publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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