

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?

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