

Fabian
1995 Ouals Questions - Pease
physics

1. Define Inductance.
2. Write down the expression for the impedance of an inductor (phase or notation).
3. Why is a coil a suitable shape for an inductor?
Bring out a moving - coil loudspeaker
4. How does this loudspeaker work?
5. Over what range of frequencies?
6. What is printed on the loudspeaker ("8 ohms, 0.5W")?
7. Why does it say '8 ohms' without reference to frequency (given that the electrical component is a coil)?
8. Why does it say '0.5W' when you cannot dissipate power in an inductor?
9. How would you relate the mechanical work done by the cone to the electrical characteristics of the loudspeaker?