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Unit 7 - Week 06: Power and spherical waves

Week 6 Assignment

The due date for submitting this assignment has passed.

Due on 2017-03-09, 23:59 IST.

Submitted assignment

1) Specific acoustic impedance for a sound wave propagation in 1-D depends upon _____. ***1 point***

- Medium of wave propagation.
- Boundary conditions of wave propagation
- Both a and b.
- None of the above.

2) Characteristic acoustic impedance for a sound wave propagation in 1-D depends upon _____. ***1 point***

- Medium of wave propagation
- Boundary conditions of wave propagation
- Both a and b
- None of the above

3) Specific acoustic impedance is the ratio of _____. ***1 point***

- Complex velocity to Complex pressure .
- Complex pressure to Complex velocity .
- Velocity to pressure .
- Pressure to velocity .

4) The term reflection coefficient (R) is defined as the ratio of ____. (Where P+ and P- are the pressures of forward and backward travelling wave respectively.) ***1 point***

- P+/P−
- P−/P+
- P+ + P−

- P+ - P−

5) Which of the following instruments can be used for characterizing acoustic properties of a material? ***1 point***

- Kundt's tube.
- Microphone.
- Acoustic Analyzer.
- Hydrophone.

6) The definition of standing wave ratio (ρ) is: ***1 point***

- ρ=$(minimum\ pressure\ amplitude)$/$(maximum\ pressure\ amplitude)$
- ρ=$(maximum\ pressure\ amplitude)$/$(minimum\ pressure\ amplitude)$
- ρ=(2×$minimum\ pressure\ amplitude$)/$(maximum\ pressure\ amplitude)$
- ρ=$(minimum\ pressure\ amplitude)$/(2×$maximum\ pressure\ amplitude$)

7) Kundt's tube experiment is also known as _____. ***1 point***

- Travelling microphone method.
- Fixed microphone method.
- Intermitted motion microphone method .
- none of the above.

8) Sound wave through closed 1-D tube is a _____. ***1 point***

- Standing wave.
- Travelling wave .
- Both.
- None of above.

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