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Courses » Fundamentals of Acoustics

Announcements

Course

Forum

Progress

Mentor

Unit 4 - Week 03: Wave equation ✎

Course outline

How to access the portal?

Week 01: Introduction and Terminology

Week 02: Concept Review

Week 03: Wave equation

- Lesson 1: Bode Plots (Magnitude) for Complex Transfer Functions
- Lesson 2: Momentum Equation for 1-D Sound Propagation
- Lesson 3: Continuity Equation for 1-D Sound Propagation
- Lesson 4: Gas Law for 1-D Sound Propagation
- Lesson 5: 1-D Wave Equation
- Lesson 6: Solution for 1-D Wave Equation
- Quiz: Week 3 Assignment
- **Week 3 Assignment Solution**

Week 04: Transmission line equations

Week 05: 1-D Waves

Week 06: Power and spherical waves

Week 07: Spherical waves and interference

Week 08: Directivity and mufflers

Week 09: Sound in rooms

Week 10: Reverb time and FFT

Week 11: Weighting

Week 3 Assignment Solution ✎

Q01:c

Q02:d

Q03:c

Q04:b

Q05:b

Q06:b

Q07:a



Q08:a

Q09:d

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and loudness

Week 12:
Miscellaneous topics
and closure

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