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Х Courses » Fundamentals of Acoustics Course Announcements Forum Progress Mentor Unit 12 - Week 11: Weighting and loudness / Course Week 11 Assignment 🖍 outline The due date for submitting this assignment has passed. Due on 2017-04-11, 23:59 IST. How to Submitted assignment access the portal? 1) Conversion of continuous signal to a discrete signal is called . 1 point Week 01: sampling. Introduction resolution. and Terminology padding. filtering. Week 02: Concept 2) What is the resolution of a 2 bit analog to digital converter which has a range **1** point Review of 1V? Week 03: 1 V Wave 0.5 V equation 0.33 V 0.1 V Week 04: Transmission 3)By Nyquist criteria what is the maximum possible frequency that can be 1 point line extracted by Discrete Fourier Transform? (where, fs is sampling frequency) equations fs Week 05: 1-D fs/2 Waves 2fs Week 06: fs/3 Power and spherical 4) Variation in capacitance is used to measure sound pressure level in 1 point waves Carbon microphones. Week 07: Spherical Electrostatic microphones. waves and

Fiber optics microphones.

interference

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Fundamentals of Acoustics - - Unit 12 - Week 11: Weighting and loudness Piezoelectric microphones. Week 08: Directivity 5)_ microphones are useful for measuring noise close to airplane wings. 1 point and mufflers Pressure Week 09: Free field Sound in Random incidence rooms Diffusive field Week 10: 6) Which one of the following options is a quantity that relate voltage produced **1** point **Reverb time** by the microphone to corresponding sound pressure level? and FFT Sensitivity. Week 11: Bandwidth. Weighting and loudness Signal to noise ratio. Resolution. Lesson 1: Measuring 7) Consider a microphone with sensitivity -20 dB (reference 1V/Pa). How much 1 point Sound volts will it produce at a pressure of 1 Pa? Signals 0.05 V Lesson 0.01 V 2:Microphones 0.1 V Lesson 0.5 V 3:Microphones Lesson 8) Compensating A-weighting value corresponding to 500 Hz frequency is 1 point 4:Weighting I esson 5: -3.24 dB Loudness -2.30 dB Lesson -4.24 dB 6:Loudness -1.30 dB O Quiz : Week 9) A microphone produces 0.01 V/Pa. How much peak voltage will it produce at 1 point 11 Assignment 100 dB of sound pressure in air? Week 11 2 V assignment 2.83 V solution 0.01 V Week 12: 1 V Miscellaneous topics and closure **Previous Page** End

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