21m.380 · Music and Technology Recording Techniques & Audio Production

Reading assignment 3 (rdo3) Perception of sound

Due: Monday, September 19, 2016, 9:30am Submit to: Mit Learning Modules → Assignments 1% of total grade

1 Materials to study

Loy, Gareth (2007). "Psychophysical basis of sound." In: *Musimathics. The Mathematical Foundations of Music*. Vol. 1. Cambridge, ма and London: Міт Press. Chap. 6, pp. 149–98. міт Library: 001379675. Available at: Міт Learning Modules • Materials.

2 Questions to respond to

- 1. What is the purpose of the three bones in the middle ear?
- 2. How can one explain that the perceived timbre (i.e., the 'color') of a sound recording changes with the playback level in dB?
- 3. What is the so-called *cone of confusion*?

3 Guidelines

- Your answers need not be very extensive (a short paragraph per question is enough), but they should demonstrate that you have actually read the article and understood its main points.
- Be concise and pay attention to form, grammar, and spelling.

21M.380 Music and Technology: Recording Techniques and Audio Production Fall 2016

For information about citing these materials or our Terms of Use, visit: <u>https://ocw.mit.edu/terms</u>.