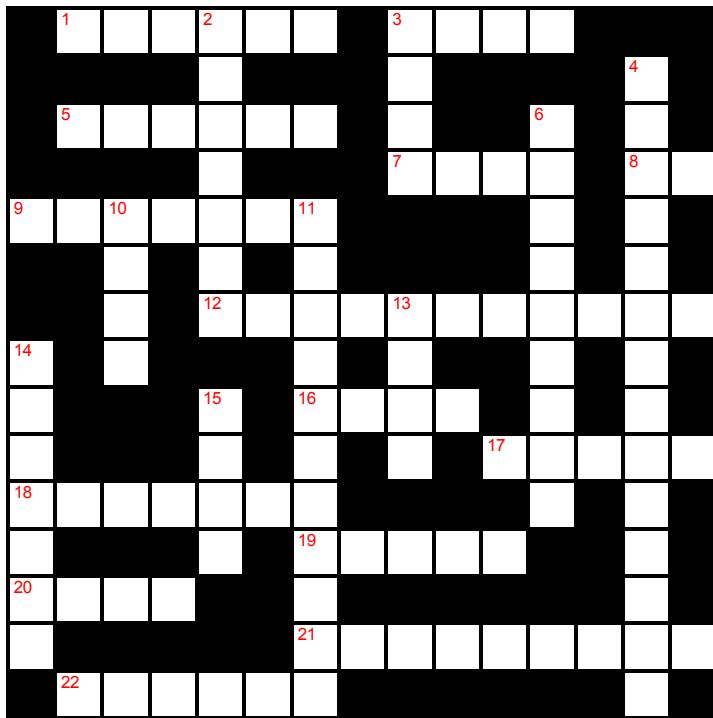


## Acoustics\_15x15\_2008-10-19

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### Across

- 1 A movable barrier used in the recording studio to achieve separation of signals from different sources. (6)
- 3 A regular variation of an electrical signal or acoustical pressure. (4)
- 5 Colloquial equivalent of sound level. (6)
- 7 A \_\_\_ results in an auditory sensation of pitch. (4)
- 8 Short for decibel. (2)
- 9 Electronics of a circuit or device that represents magnitudes in digits. (7)
- 12 The tiny membrane of the cochlea that opens in the middle ear that serves as a "pressure release" for the cochlear fluid. (5,6)
- 16 A unit of perceived

loudness equal to the loudness of a 1000-hertz tone at 40 dB above threshold. (4)

- 17 Sound of any kind (especially unintelligible or dissonant sound). (5)
- 18 A very short, transient, electric or acoustical signal. (7)
- 19 Of or pertaining to hearing or the ear. (5)
- 20 The persistence of a sound after its source has stopped. (4)
- 21 Electronic equipment that reduces frequency distortion. (9)
- 22 A device or circuit with a \_\_\_ characteristic means that a signal passing through it is not distorted. (6)

### Down

- 2 A repetitive echo set up by parallel reflecting surfaces. (7)
- 3 The unit of electrical or acoustical power. (4)
- 4 The human hearing system made up of the external ear, the middle ear, the inner ear, the nerve pathways, and the brain. (8,6)
- 6 A hollow chamber whose dimensions allow the resonant oscillation of electromagnetic or acoustic waves. (9)
- 10 The increase in power level of a signal produced by an amplifier. (4)
- 11 An electroacoustical transducer that changes electrical energy to acoustical energy. (4,7)
- 13 The old standard

reference level for sound pressure was 0.0002 \_\_\_/sq. cm. The same level today is expressed as 20 micro pascals, or 20  $\mu$ Pa. (4)

- 14 Full form of dB, a logarithmic unit of relative power. (7)
- 15 A low or minimum point on a graph. A minimum pressure region in a room. (4)