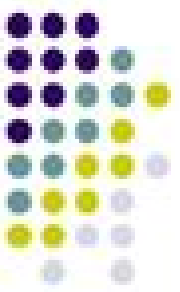


# Decibel: a measure of sound intensity



- Decibel (dB) =  $10 \log I/I_R$ 
  - $I$  = intensity of sound,  $I_R$  = reference intensity
  - Acoustic intensity is proportional to the square of sound pressure level
  - Sound pressure is more conveniently measured than sound intensity
- Sound pressure level (SPL) unit is decibel
  - $SPL (dB) = 20 \log P/P_R$ 
    - $P$  = the sound pressure in  $N/m^2$  ( $N$ =Newton,  $m$  = meter)
    - $P_R$  = reference pressure (either  $0.0002 \text{ dynes/cm}^2$ , the absolute threshold for human hearing and equal  $20 \text{ micropascal}$ , or  $1 \text{ dyne/cm}^2$ )

# Sound Intensity And The Decibel System Anne Surkey

**Gary M. Pierzynski, Gary M. Vance, J.  
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### **Sound Intensity And The Decibel System Anne Surkey:**

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