

Doppler Effect

Example 10 The Sound of a Passing Train

A high-speed train is traveling at a speed of 44.7 m/s when the engineer sounds the 415-Hz warning horn. The speed of sound is 343 m/s. What are the frequency and wavelength of the sound, as perceived by a person standing at the crossing, when the train is (a) approaching and (b) leaving the crossing?

approaching

$$f_o = f_s \left(\frac{1}{1 - v_s/v} \right)$$

$$f_o = (415 \text{ Hz}) \left(\frac{1}{1 - \frac{44.7 \text{ m/s}}{343 \text{ m/s}}} \right) = 477 \text{ Hz}$$

leaving

$$f_o = f_s \left(\frac{1}{1 + v_s/v} \right)$$

$$f_o = (415 \text{ Hz}) \left(\frac{1}{1 + \frac{44.7 \text{ m/s}}{343 \text{ m/s}}} \right) = 367 \text{ Hz}$$

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Léo Pomar



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