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Core Science 2

Hrvoje Tkalčić



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web doppler effect bat and insect problem with solution problem statement a bat is moving in still air toward an insect at constant speed v b 7 m/s the insect is moving away from the bat at constant speed v_i the bat emits ultrasounds of frequency ν_0

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web the doppler effect occurs not only for sound but for any wave when there is relative motion between the observer and the source doppler shifts occur in the frequency of sound light and water waves for example doppler shifts can be used to

determine velocity such as when ultrasound is reflected from blood in a medical diagnostic

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web solution velocity of observer $v_o = 5 \text{ m/s}$ velocity of sound $v_s = 340 \text{ m/s}$ according to doppler's effect frequency $f' = \frac{v_s + v_o}{v_s} f$
 $f = 335 \text{ Hz}$ example solve problems on doppler effect where non linear motion is