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# Macroeconomics 13th Edition Ragan Study Guide

**Roman Wölfel**



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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  $v_o$   $5 \text{ ms}^{-1}$  velocity of sound  $v$   $3 \text{ gt } 10 \text{ 2 } 20 \text{ ms}^{-1}$  according to doppler s effect frequency  $\nu$   $\nu_o$   $v$   $3 \text{ f } 335 \text{ 5335 } 20 \text{ 350 } 324 \text{ 26hz}$  example solve problems on doppler effect where non linear motion is