Beat Frequency

Wednesday, May 11, 2011 9:00 AM

A beat is a result of destructive interference of 2 waves of ALMOST the same frequency (f_1 , f_2)

How often beats occur is called the beat frequency and is simply the difference between f_1 and f_2 .

$$f_{\text{beats}} = \Delta f = \int_{U} - \int_{V}$$

Two waves of frequency 200 Hz and 210 Hz are produced. What will be the beat frequency? $lO - loo = IO H_2$

Two cars with identical horns emit a sound at 300 Hz. A stationary observer stands next to one of the cars which is parked, the second car drives toward the observer at 40 m/s what beat frequency is heard?

