Physics Hertz

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|  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | 11 |  |  |  |  |  |  |  |  |  |  |  | 12 |  |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  | 17 |  |  |  |  |  |  | 18 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | 27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Across**  **4.** The loss of piezoelectric properties  **5.** Decreases the range of amplitudes  **8.** Relation between PRP and PRF  **12.** Imaging transducers have a \_\_\_\_ sensitivity  **13.** Frequency times wavelength  **15.** Determined by source and medium  **19.** Time it takes to complete one cycle  **20.** When the depth of view is shallow, PRF is  **21.** Creates electrical signals  **22.** Frame rate is measured in  **23.** Multiple reflections that are equally spaced  **25.** Reduces ringing of the PZT  **29.** Imaging depth x 13 microseconds  **31.** Protects the active element and 1/4 wavelength thick  **32.** PRP and imaging depth are \_\_\_\_\_\_\_ related  **33.** Units of pulse repetition frequency  **34.** The "bigness" of a wave  **35.** Transforms electrical energy into acoustic energy during transmission | **Down**  **1.** Power divided by area  **2.** Provides electrical connection between PZT and the US system  **3.** Refraction occurs with which incidence  **6.** Impedance is the product of propagation speed and  **7.** Which display mode provides information reguarding reflector motion  **9.** Range of frequencies in the pulse  **10.** Region that starts at the focus and extends deeper  **11.** Time it takes for an US system to create a pulse  **14.** Minimum value of duty factor  **16.** Law associated with refraction  **17.** Which resolution is determined by frame rate?  **18.** Period is measured in units of  **24.** Ability to distinguish two structures lying close together  **26.** Used to alter the appearance of lowly reflected objects  **27.** Archives ultrasound studies  **28.** If frequency is decreased, near zone length is?  **30.** The units of attenuation |