
ULTRASOUND PHYSICS REVIEW

If the output power setting is at 50% and this indicates 0dB, increasing the power by: - 3dB will increase the power output by a factor of 2

An increase in power of 3dB indicates an increase of 2X the original power. Every 3dB that the power increases will double the power output. $50\% \times 2 = 100\%$

The doppler tracing demonstrates electrical noise. How can you reduce or eliminate this artifact? - Increase the wall filter settings

Noise can be reduced by decreasing doppler gain, increasing wall filter settings or trying another wall outlet.

Which of the following is true regarding the Curie point of a piezoelectric element? - If the active PE crystal is heated to this temperature, the element will lose its piezoelectric properties.

Certain ceramic elements can be polarized by heating them above their Curie point. If the active element is heated again, it will lose its piezoelectric properties

What dimension of the mass is being measured on this image? - AP

The spatial resolution on a CRT monitor is directly related to: - The number of lines per frame

The vacuum tube TV (CRT) monitor interfaces two fields together to form an image frame. The more lines in each field, the better the spatial resolution on the image

What system component is not needed when an LCD monitor is used? - digital to analog converter

LCD monitors accept the digital signal and do not need the component

The matching layer for a txd is usually made of plastic and its approx: - $\frac{1}{4}$ of the probe wavelength in thickness

If the radius of a blood vessel decreases by 50%, what happens to the flow volume? - decreases by 16

Radius decreases by $\frac{1}{2}$, flow volume decreases by 2 to the fourth power (16x); if the radius decreases to $\frac{1}{3}$ original size, the flow volume decreases by 3 to the fourth power (81x). Note the significant change in flow value from a 50% reduction in radius to a 66% reduction in radius

Why is there no color flow displayed in the right hepatic vein: - The blood flow is perpendicular to the beam at the zero degree angle and undetectable

Ultrasound Physics Study Guide

Jin-Ying Zhang



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