

Ultrasound Physics Review

RESOLUTION

Resolution is the machine's ability to detect and display accurately.

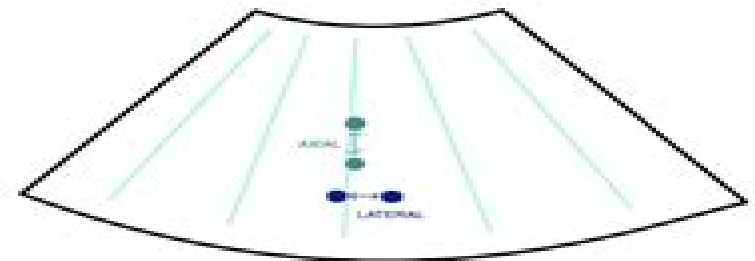
2 main types of resolution: SPATIAL(space) and TEMPORAL(time)

Spatial resolution: the machine's ability to distinguish between 2 closely spaced objects and display them separately. The spatial resolution will be measured in space or distance (mm)

Axial and Lateral

Axial = vertical

Lateral = horizontal



Axial = $1/2$ SPL

2 vertical objects *parallel or along axis of pulse*

LARRD (longitudinal, axial, radial, range, depth)

Minimum distance 2 vertical objects must be separated by to be resolved = $1/2$ SPL

In this example:

SPL of 1.8mm = Axial res of 0.9mm
The 2 objects are separated by 1mm. They are separated by the minimum distance = resolved!

SPL of 2.2mm = Axial res of 1.1mm
The same 2 objects no longer meet the requirements = blurred together vertically

Even though 2 echoes are produced, the echoes are blended because the pulse is longer



GOAL: shorten the pulse

- Increase frequency
Decreases wavelength = decreases pulse
- Damping/backing material
Reduces ringing of crystal = shortens the pulse
- Wide Bandwidth = shorter pulse (lo Q)

Ultrasound Physics Study Guide

Mansoor Khan, MBBS, RDMS, RDCS

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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The Ultrasound Physics Kid Revised Chuck Sessa, 2013-09-28 This is a revised edition of the first Ultrasound Physics Kid Notes and Concepts New features include more information Color Doppler Concepts and Comments on certain Ultrasound Physics concepts for your review when studying for the SPI exam The Ultrasound Physics Kid Revised study guide booklet is set up in an easy to read organized format

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The Echocardiography Companion Tarak Rambhatla, Gila Perk, 2021-03-09 This is a comprehensive yet easy to read study guide for those preparing for the echocardiography board examinations which brings all of the critical resources together into one convenient and portable resource Echocardiography is an integral part of routine cardiology practice and this book represents a quick yet thorough reference that can be easily consulted to help practicing clinicians deliver high quality care to their patients The Echocardiography Companion Study Guide and Review includes a comprehensive educationally focused review of the technique its clinical uses applications and utilization in all cardiac conditions The practical and quick reference format allows it to serve as a reference book and as a helpful companion to students on which notes can be taken while studying from other resources such as board review videos

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