

REAL TIME IMAGING

Static Scanning

Real-time Imaging

DISPLAY MODES

A-Mode 'Amplitude Mode'

- 1. Amplitude vs. time
- 2. Amplitude vs. depth

TRANSFORMERS

Prerequisites

- 1. Knowledge of basic electrical engineering
- 2. Knowledge of basic physics
- 3. Knowledge of basic mathematics
- 4. Knowledge of basic electronics

Prerequisite materials

- 1. Knowledge of basic electrical engineering
- 2. Knowledge of basic physics

SOUND & MEDIA

3 processes that contribute to Attenuation

- 1. Reflection
- 2. Absorption
- 3. Scattering
- 4. Diffraction
- 5. Refraction
- 6. Dispersion
- 7. Interference
- 8. Diffusion
- 9. Diffraction
- 10. Dispersion

PULSED WAVES

3 parameters that describe Pulsed Sound

- 1. Pulse duration
- 2. Pulse repetition period
- 3. Pulse repetition frequency
- 4. Pulse amplitude
- 5. Pulse width

SOUND

3 Acoustic Variables

- 1. Pressure
- 2. Density
- 3. Particle displacement

3 parameters that describe sound

- 1. Amplitude
- 2. Frequency
- 3. Wavelength

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2D IMAGING



SOUND BEAMS

3 types of Sound Beam

Focal Zone

- 1. Focal zone is the region of the beam where the sound waves are most concentrated.
- 2. Focal zone is the region of the beam where the sound waves are most concentrated.
- 3. Focal zone is the region of the beam where the sound waves are most concentrated.

RANGE EQUATION

Time of Flight or the Return Time



ULTRASOUND PHYSICS NOTES



SOUND WAVES

Period & Frequency

- 1. Period is the time between two consecutive pulses.
- 2. Frequency is the number of pulses per second.

BASICS

The Matrix System

- 1. Matrix system is a system of rows and columns.
- 2. Matrix system is a system of rows and columns.
- 3. Matrix system is a system of rows and columns.



Directly Related/Proportional

- 1. Directly related/proportional means that as one variable increases, the other variable also increases.
- 2. Directly related/proportional means that as one variable increases, the other variable also increases.
- 3. Directly related/proportional means that as one variable increases, the other variable also increases.

Inversely Related

- 1. Inversely related means that as one variable increases, the other variable decreases.
- 2. Inversely related means that as one variable increases, the other variable decreases.
- 3. Inversely related means that as one variable increases, the other variable decreases.

ETHICS

Consent

- 1. Consent is the permission given by a patient to undergo a procedure.
- 2. Consent is the permission given by a patient to undergo a procedure.
- 3. Consent is the permission given by a patient to undergo a procedure.

MOORE EFFECTS

Resonance

- 1. Resonance is the phenomenon where a system oscillates with a constant amplitude.
- 2. Resonance is the phenomenon where a system oscillates with a constant amplitude.
- 3. Resonance is the phenomenon where a system oscillates with a constant amplitude.

3 types of Resonance

- 1. Mechanical resonance
- 2. Electrical resonance
- 3. Acoustic resonance

QUALITY ASSURANCE

3. Tissue Equivalent Phantom

- 1. Tissue equivalent phantom is a device used to simulate the properties of human tissue.
- 2. Tissue equivalent phantom is a device used to simulate the properties of human tissue.
- 3. Tissue equivalent phantom is a device used to simulate the properties of human tissue.

ARTIFACTS

1. Reverberation

- 1. Reverberation is the phenomenon where sound waves reflect off multiple surfaces.
- 2. Reverberation is the phenomenon where sound waves reflect off multiple surfaces.
- 3. Reverberation is the phenomenon where sound waves reflect off multiple surfaces.

2. Shadowing

- 1. Shadowing is the phenomenon where sound waves are blocked by a solid object.
- 2. Shadowing is the phenomenon where sound waves are blocked by a solid object.
- 3. Shadowing is the phenomenon where sound waves are blocked by a solid object.

HEMODYNAMICS

Hemodynamics

- 1. Hemodynamics is the study of blood flow in the circulatory system.
- 2. Hemodynamics is the study of blood flow in the circulatory system.
- 3. Hemodynamics is the study of blood flow in the circulatory system.

Flow 'Volumetric Flow rate'

- 1. Volumetric flow rate is the volume of fluid that flows through a cross-section of a pipe.
- 2. Volumetric flow rate is the volume of fluid that flows through a cross-section of a pipe.
- 3. Volumetric flow rate is the volume of fluid that flows through a cross-section of a pipe.

Energy Gradient

- 1. Energy gradient is the change in energy per unit distance.
- 2. Energy gradient is the change in energy per unit distance.
- 3. Energy gradient is the change in energy per unit distance.

Turbulent Flow

- 1. Turbulent flow is the flow of fluid in which the particles move in a disorganized manner.
- 2. Turbulent flow is the flow of fluid in which the particles move in a disorganized manner.
- 3. Turbulent flow is the flow of fluid in which the particles move in a disorganized manner.

HARMONICS & CONTRAST

Hydrostatic Pressure

- 1. Hydrostatic pressure is the pressure exerted by a fluid at equilibrium.
- 2. Hydrostatic pressure is the pressure exerted by a fluid at equilibrium.
- 3. Hydrostatic pressure is the pressure exerted by a fluid at equilibrium.

DISPLAYS & IMAGE STORAGE

Monitors vs. Gray Scale Displays

- 1. Monitors are devices used to display images.
- 2. Monitors are devices used to display images.
- 3. Monitors are devices used to display images.

Digital Scan Conversion

- 1. Digital scan conversion is the process of converting an analog image into a digital format.
- 2. Digital scan conversion is the process of converting an analog image into a digital format.
- 3. Digital scan conversion is the process of converting an analog image into a digital format.

PULSED ECHO INSTRUMENTATION

Resolution

- 1. Resolution is the ability to distinguish between two objects.
- 2. Resolution is the ability to distinguish between two objects.
- 3. Resolution is the ability to distinguish between two objects.

Amplification 'Receiver gain'

- 1. Amplification is the process of increasing the amplitude of a signal.
- 2. Amplification is the process of increasing the amplitude of a signal.
- 3. Amplification is the process of increasing the amplitude of a signal.

Attenuation

- 1. Attenuation is the process of decreasing the amplitude of a signal.
- 2. Attenuation is the process of decreasing the amplitude of a signal.
- 3. Attenuation is the process of decreasing the amplitude of a signal.

3 parameters that describe sound

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