

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

Electromagnetic Effect

- 1. Ability to convert electrical energy into mechanical energy

Piezoelectric Materials

- 1. Materials that convert mechanical energy into electrical energy

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
- 11. Interference
- 12. Diffusion

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
- 6. Pulse height
- 7. Pulse area
- 8. Pulse volume
- 9. Pulse mass
- 10. Pulse energy
- 11. Pulse power
- 12. Pulse density

SOUND

3 Acoustic Variables

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

3 parameters that describe sound

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

Sound waves are mechanical waves that propagate through a medium. They are characterized by their amplitude, frequency, and wavelength. Sound waves can be longitudinal or transverse, depending on the direction of particle motion relative to the direction of wave propagation.



Interference

- 1. Constructive interference: occurs when two waves are in phase, resulting in a wave with a larger amplitude.
- 2. Destructive interference: occurs when two waves are out of phase, resulting in a wave with a smaller amplitude.

2D IMAGING



SOUND BEAMS

3 of a Sound Beam

Focal Zone

- 1. The region of the sound beam where the sound waves are most concentrated.
- 2. The region of the sound beam where the sound waves are most intense.
- 3. The region of the sound beam where the sound waves are most focused.

RANGE EQUATION

Time of Flight or the Return Time

- 1. The time it takes for a sound wave to travel from the transducer to the reflector and back.



ULTRASOUND PHYSICS NOTES



SOUND WAVES

Sound waves are mechanical waves that propagate through a medium. They are characterized by their amplitude, frequency, and wavelength. Sound waves can be longitudinal or transverse, depending on the direction of particle motion relative to the direction of wave propagation.

Period & Frequency

- 1. Period: the time it takes for one complete cycle of a wave to pass a point.
- 2. Frequency: the number of complete cycles of a wave that pass a point in a given time.

BASICS

The Matrix System

- 1. The matrix system is a system of equations that can be used to solve for the unknowns in a system of equations.
- 2. The matrix system is a system of equations that can be used to solve for the unknowns in a system of equations.
- 3. The matrix system is a system of equations that can be used to solve for the unknowns in a system of equations.



Directly Related (Proportional)

- 1. Directly related: two quantities are directly related if one is a constant multiple of the other.
- 2. Inversely related: two quantities are inversely related if one is the reciprocal of the other.

Reciprocal

- 1. Reciprocal: two quantities are reciprocal if one is the reciprocal of the other.
- 2. Inversely related: two quantities are inversely related if one is the reciprocal of the other.

ETHICS

Consent

- 1. The process of obtaining permission from a patient before performing a procedure.

MOORE EFFECTS

Resonance

- 1. The phenomenon of a system oscillating with a larger amplitude when the frequency of the external force matches the natural frequency of the system.

3 Effects

- 1. Resonance
- 2. Amplification
- 3. Damping

QUALITY ASSURANCE

3. Tissue Equivalent Phantom

- 1. A phantom that simulates the acoustic properties of human tissue.
- 2. A phantom that simulates the acoustic properties of human tissue.
- 3. A phantom that simulates the acoustic properties of human tissue.

ARTIFACTS

1. Reverberation

- 1. The phenomenon of sound waves reflecting off a surface and creating a series of echoes.
- 2. The phenomenon of sound waves reflecting off a surface and creating a series of echoes.
- 3. The phenomenon of sound waves reflecting off a surface and creating a series of echoes.

2. Shadowing

- 1. The phenomenon of sound waves being blocked by a solid object, creating a shadow.
- 2. The phenomenon of sound waves being blocked by a solid object, creating a shadow.
- 3. The phenomenon of sound waves being blocked by a solid object, creating a shadow.

HEMODYNAMICS

Hemodynamics

- 1. The study of the flow of blood through the circulatory system.

Flow 'Volumetric Flow rate'

- 1. The volume of fluid that flows through a cross-section of a pipe or vessel in a given time.

3 types

- 1. Laminar flow
- 2. Turbulent flow
- 3. Transitional flow

Energy Gradient

- 1. The difference in energy between two points in a system.

Turbulent Flow

- 1. The flow of fluid in which the particles move in a disorganized manner.

HARMONICS & CONTRAST

Hydrostatic Pressure

- 1. The pressure exerted by a fluid at equilibrium at a given point.

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- 9. The pressure exerted by a fluid at equilibrium at a given point.
- 10. The pressure exerted by a fluid at equilibrium at a given point.

DISPLAYS & IMAGE STORAGE

Monitors vs. Gray Scale Displays

- 1. Monitors: devices that display images on a screen.
- 2. Gray Scale Displays: devices that display images in shades of gray.

Digital Scan Conversion

- 1. The process of converting an analog image into a digital format.

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Pixel

- 1. A small element of an image, represented by a single dot.

Pixel Density

- 1. The number of pixels per unit area.
- 2. The number of pixels per unit area.
- 3. The number of pixels per unit area.
- 4. The number of pixels per unit area.
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Ultrasound Physics Principles And Problems Study Guide

Rosina Ehmann



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