

REAL TIME IMAGING

Static Scanning

Real-time Imaging

DISPLAY MODES

A-Mode 'Amplitude Mode'

- 1. Amplitude
- 2. Time

TRANSFORMERS

Prerequisites

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

Electromagnetic Effect

- 1. Knowledge of basic electrical engineering

Piezoelectric Materials

- 1. Knowledge of basic electrical engineering

SOUND & MEDIA

3 processes that contribute to Attenuation

- 1. Reflection
- 2. Absorption
- 3. Scattering

PULSED WAVES

3 parameters that describe Pulsed Sound

- 1. Pulse duration
- 2. Pulse repetition period
- 3. Pulse repetition frequency

SOUND

3 Acoustic Variables

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

3 parameters that describe sound

- 1. Amplitude

Relationships between variables in a propagating sound wave

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



Interference

- 1. Constructive interference
- 2. Destructive interference

2D IMAGING



SOUND BEAMS

3 types of Sound Beam

Focal Zone

- 1. Focal length
- 2. Focal diameter
- 3. Focal volume

RANGE EQUATION

Time of Flight or the Return Time

- 1. Time of flight



INTENSITY

Intensity

ULTRASOUND PHYSICS NOTES



SOUND WAVES

Sound waves are mechanical waves that propagate through a medium. They are characterized by their frequency, wavelength, and amplitude.

Period & Frequency

- 1. Period
- 2. Frequency

BASICS

The Metric System

- 1. Length
- 2. Mass
- 3. Time



Directly Related (Proportional)

- 1. Directly proportional
- 2. Inversely proportional

Reciprocal

- 1. Reciprocal
- 2. Inverse

PULSED ECHO INSTRUMENTATION

Basics

- 1. Amplitude

- 2. Frequency

- 3. Wavelength

- 4. Period

- 5. Velocity

Amplitude 'Superposition' Principle

- 1. Amplitude

- 2. Frequency

- 3. Wavelength

- 4. Period

- 5. Velocity

ETHICS

Consent

- 1. Consent

MOORE EFFECTS

Basics

- 1. Amplitude

Effects

- 1. Amplitude

QUALITY ASSURANCE

3. Tissue Equivalent Phantom

- 1. Amplitude

ARTIFACTS

1. Reverberation

- 1. Amplitude

2. Shadowing

- 1. Amplitude

DOPPLER

Continuous Wave Transducer

- 1. Amplitude

HEMODYNAMICS

Hemodynamics

- 1. Amplitude

- 2. Flow

- 3. Velocity

Energy Gradient

- 1. Amplitude

- 2. Flow

- 3. Velocity

HARMONICS & CONTRAST

Hydrostatic Pressure

- 1. Amplitude

- 2. Flow

- 3. Velocity

- 4. Period

- 5. Velocity

DISPLAYS & IMAGE STORAGE

Monitors vs Gray Scale Displays

- 1. Amplitude

Digital Scan Conversion

- 1. Amplitude

- 2. Flow

- 3. Velocity

- 4. Period

- 5. Velocity

- 6. Period

- 7. Velocity

- 8. Period

Sound Physics Study Guide

Arshad Iqbal



Sound Physics Study Guide:

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