

REAL TIME IMAGING

Static Scanning

Real-time Imaging

DISPLAY MODES

A-Mode 'Amplitude Mode'

- 1. Amplitude
- 2. Distance

TRANSFORMERS

Prerequisites

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

Prerequisites Materials

- 1. Knowledge of materials science
- 2. Knowledge of 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
- 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. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

3 parameters that describe

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
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- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

- 1. Pressure
- 2. Density
- 3. Velocity

2D IMAGING



SOUND BEAMS

3 of a Sound Beam

Focal Zone

- 1. Focal zone
- 2. Focal length
- 3. Focal diameter
- 4. Focal area
- 5. Focal volume
- 6. Focal mass
- 7. Focal energy
- 8. Focal power
- 9. Focal density
- 10. Focal pressure
- 11. Focal temperature
- 12. Focal viscosity

RANGE EQUATION

Flow of light or the Return Time

- 1. Flow of light
- 2. Return time
- 3. Flow of light
- 4. Return time
- 5. Flow of light
- 6. Return time
- 7. Flow of light
- 8. Return time
- 9. Flow of light
- 10. Return time
- 11. Flow of light
- 12. Return time



ULTRASOUND PHYSICS NOTES



SOUND WAVES

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

Period & Frequency

- 1. Period
- 2. Frequency
- 3. Period
- 4. Frequency
- 5. Period
- 6. Frequency
- 7. Period
- 8. Frequency
- 9. Period
- 10. Frequency
- 11. Period
- 12. Frequency

BASICS

The Matrix System

- 1. Matrix system
- 2. Matrix system
- 3. Matrix system
- 4. Matrix system
- 5. Matrix system
- 6. Matrix system
- 7. Matrix system
- 8. Matrix system
- 9. Matrix system
- 10. Matrix system
- 11. Matrix system
- 12. Matrix system



The matrix system is a system of equations that can be used to solve for the unknowns in a system of equations. It is a system of linear equations that can be solved using various methods, including Gaussian elimination and matrix inversion.

Directly Related (Proportional)

- 1. Directly related
- 2. Proportional
- 3. Directly related
- 4. Proportional
- 5. Directly related
- 6. Proportional
- 7. Directly related
- 8. Proportional
- 9. Directly related
- 10. Proportional
- 11. Directly related
- 12. Proportional

Reciprocal

- 1. Reciprocal
- 2. Reciprocal
- 3. Reciprocal
- 4. Reciprocal
- 5. Reciprocal
- 6. Reciprocal
- 7. Reciprocal
- 8. Reciprocal
- 9. Reciprocal
- 10. Reciprocal
- 11. Reciprocal
- 12. Reciprocal

ETHICS

Consent

- 1. Consent
- 2. Consent
- 3. Consent
- 4. Consent
- 5. Consent
- 6. Consent
- 7. Consent
- 8. Consent
- 9. Consent
- 10. Consent
- 11. Consent
- 12. Consent

MOORE EFFECTS

Resonance

- 1. Resonance
- 2. Resonance
- 3. Resonance
- 4. Resonance
- 5. Resonance
- 6. Resonance
- 7. Resonance
- 8. Resonance
- 9. Resonance
- 10. Resonance
- 11. Resonance
- 12. Resonance

Moore

- 1. Moore
- 2. Moore
- 3. Moore
- 4. Moore
- 5. Moore
- 6. Moore
- 7. Moore
- 8. Moore
- 9. Moore
- 10. Moore
- 11. Moore
- 12. Moore

QUALITY ASSURANCE

3. Tissue Equivalent Phantom

- 1. Tissue equivalent phantom
- 2. Tissue equivalent phantom
- 3. Tissue equivalent phantom
- 4. Tissue equivalent phantom
- 5. Tissue equivalent phantom
- 6. Tissue equivalent phantom
- 7. Tissue equivalent phantom
- 8. Tissue equivalent phantom
- 9. Tissue equivalent phantom
- 10. Tissue equivalent phantom
- 11. Tissue equivalent phantom
- 12. Tissue equivalent phantom

ARTIFACTS

1. Reverberation

- 1. Reverberation
- 2. Reverberation
- 3. Reverberation
- 4. Reverberation
- 5. Reverberation
- 6. Reverberation
- 7. Reverberation
- 8. Reverberation
- 9. Reverberation
- 10. Reverberation
- 11. Reverberation
- 12. Reverberation

2. Shadowing

- 1. Shadowing
- 2. Shadowing
- 3. Shadowing
- 4. Shadowing
- 5. Shadowing
- 6. Shadowing
- 7. Shadowing
- 8. Shadowing
- 9. Shadowing
- 10. Shadowing
- 11. Shadowing
- 12. Shadowing

HEMODYNAMICS

Hemodynamics

- 1. Hemodynamics
- 2. Hemodynamics
- 3. Hemodynamics
- 4. Hemodynamics
- 5. Hemodynamics
- 6. Hemodynamics
- 7. Hemodynamics
- 8. Hemodynamics
- 9. Hemodynamics
- 10. Hemodynamics
- 11. Hemodynamics
- 12. Hemodynamics

Flow "Volumetric Flow rate"

- 1. Flow
- 2. Flow
- 3. Flow
- 4. Flow
- 5. Flow
- 6. Flow
- 7. Flow
- 8. Flow
- 9. Flow
- 10. Flow
- 11. Flow
- 12. Flow

Volume

- 1. Volume
- 2. Volume
- 3. Volume
- 4. Volume
- 5. Volume
- 6. Volume
- 7. Volume
- 8. Volume
- 9. Volume
- 10. Volume
- 11. Volume
- 12. Volume

Energy Gradient

- 1. Energy gradient
- 2. Energy gradient
- 3. Energy gradient
- 4. Energy gradient
- 5. Energy gradient
- 6. Energy gradient
- 7. Energy gradient
- 8. Energy gradient
- 9. Energy gradient
- 10. Energy gradient
- 11. Energy gradient
- 12. Energy gradient

Turbulent Flow

- 1. Turbulent flow
- 2. Turbulent flow
- 3. Turbulent flow
- 4. Turbulent flow
- 5. Turbulent flow
- 6. Turbulent flow
- 7. Turbulent flow
- 8. Turbulent flow
- 9. Turbulent flow
- 10. Turbulent flow
- 11. Turbulent flow
- 12. Turbulent flow

Continuous Wave Transducer

- 1. Continuous wave transducer
- 2. Continuous wave transducer
- 3. Continuous wave transducer
- 4. Continuous wave transducer
- 5. Continuous wave transducer
- 6. Continuous wave transducer
- 7. Continuous wave transducer
- 8. Continuous wave transducer
- 9. Continuous wave transducer
- 10. Continuous wave transducer
- 11. Continuous wave transducer
- 12. Continuous wave transducer

HARMONICS & CONTRAST

Harmonic Pressure

- 1. Harmonic pressure
- 2. Harmonic pressure
- 3. Harmonic pressure
- 4. Harmonic pressure
- 5. Harmonic pressure
- 6. Harmonic pressure
- 7. Harmonic pressure
- 8. Harmonic pressure
- 9. Harmonic pressure
- 10. Harmonic pressure
- 11. Harmonic pressure
- 12. Harmonic pressure

DISPLAYS & IMAGE STORAGE

Monitors vs Gray Scale Displays

- 1. Monitors
- 2. Monitors
- 3. Monitors
- 4. Monitors
- 5. Monitors
- 6. Monitors
- 7. Monitors
- 8. Monitors
- 9. Monitors
- 10. Monitors
- 11. Monitors
- 12. Monitors

Digital Scan Conversion

- 1. Digital scan conversion
- 2. Digital scan conversion
- 3. Digital scan conversion
- 4. Digital scan conversion
- 5. Digital scan conversion
- 6. Digital scan conversion
- 7. Digital scan conversion
- 8. Digital scan conversion
- 9. Digital scan conversion
- 10. Digital scan conversion
- 11. Digital scan conversion
- 12. Digital scan conversion

Advantages

- 1. Advantages
- 2. Advantages
- 3. Advantages
- 4. Advantages
- 5. Advantages
- 6. Advantages
- 7. Advantages
- 8. Advantages
- 9. Advantages
- 10. Advantages
- 11. Advantages
- 12. Advantages

Disadvantages

- 1. Disadvantages
- 2. Disadvantages
- 3. Disadvantages
- 4. Disadvantages
- 5. Disadvantages
- 6. Disadvantages
- 7. Disadvantages
- 8. Disadvantages
- 9. Disadvantages
- 10. Disadvantages
- 11. Disadvantages
- 12. Disadvantages

Issues

- 1. Issues
- 2. Issues
- 3. Issues
- 4. Issues
- 5. Issues
- 6. Issues
- 7. Issues
- 8. Issues
- 9. Issues
- 10. Issues
- 11. Issues
- 12. Issues

Visual Density

- 1. Visual density
- 2. Visual density
- 3. Visual density
- 4. Visual density
- 5. Visual density
- 6. Visual density
- 7. Visual density
- 8. Visual density
- 9. Visual density
- 10. Visual density
- 11. Visual density
- 12. Visual density

Sound Physics Study Guide

Ben Pugh



Sound Physics Study Guide:

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