

FUNDAMENTALS OF SPEECH: Lecture6

SAPATIAL PROPAGATION

-La presión y la velocidad son dos funciones senoidales en fase entre ambas, y por lo tanto directamente proporcionales

SOUND WAVES

-Parameters of waves propagation:

Velocity:

C = propagation velocity in the elastic médium: $C = \lambda \nu / T$

$C_{solid} \gg C_{liquid} \gg C_{gas}$

In gas increases with increasing Tabsol(Temperatura)

Resumen: la velocidad de propagación de las ondas depende del medio y temperatura pero no de la fuente(Source)

Frecuency

Period

ACOUSTIC IMPEDANCE

-Acoustic Impedance: Resistance of the medium to wave propagation

Acoustic impedance: $Z = \rho c$ ($\rho = \text{density}$): $Z = P/V$ where P and V are the amplitudes of the p and v waves (ondas senoidales de la presión y velocidad)

*The MIDDLE EAR is an impedance adapter for two different means: air in the ear canal, fluids in the cochlea

(MIRAR FORMULAS DIAPOSITIVA 14)

-Definición de POWER e INTENSITY, que son dos related quantities:

POWER: [W]: Energy emitted in a given time unit

INTENSITY: [W/m²]: Power through the Surface unit

ATTENUATION: Proportional to the square distance

(Threshold=Límite)

CONVENTIONAL HEARING THRESHOLD

-Definimos una intensidad de referencia como $\text{thr} = 10^{-12} \text{W/m}^2$, this reference threshold is not related to psychophysics.

Los sonidos con intensidades extremas tienen un valor cercano a 1

Fundamentals Of Speech

Shasha Hu



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Table of Contents Fundamentals Of Speech

1. Understanding the eBook Fundamentals Of Speech
 - The Rise of Digital Reading Fundamentals Of Speech
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Speech
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fundamentals Of Speech
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Speech
 - Personalized Recommendations
 - Fundamentals Of Speech User Reviews and Ratings
 - Fundamentals Of Speech and Bestseller Lists
5. Accessing Fundamentals Of Speech Free and Paid eBooks
 - Fundamentals Of Speech Public Domain eBooks
 - Fundamentals Of Speech eBook Subscription Services
 - Fundamentals Of Speech Budget-Friendly Options
6. Navigating Fundamentals Of Speech eBook Formats

- ePub, PDF, MOBI, and More
 - Fundamentals Of Speech Compatibility with Devices
 - Fundamentals Of Speech Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Speech
 - Highlighting and Note-Taking Fundamentals Of Speech
 - Interactive Elements Fundamentals Of Speech
 8. Staying Engaged with Fundamentals Of Speech
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Speech
 9. Balancing eBooks and Physical Books Fundamentals Of Speech
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Speech
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Fundamentals Of Speech
 - Setting Reading Goals Fundamentals Of Speech
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Fundamentals Of Speech
 - Fact-Checking eBook Content of Fundamentals Of Speech
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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