

Physical Science: Speed of Sound Calculations

Directions: Solve the following problems. Round approximate answers to 2 digits after the decimal.

Formulas:
$$frequency = \frac{speed\ of\ sound}{wavelength}$$

$$speed\ of\ sound = (331.5 + 0.60 \times temperature\ of\ air\ in\ Celsius) m/s$$

1. A sound wave traveling through 22.3° C air has a wavelength of 9.65 meters. What is the frequency of the sound wave? Answer: _____

2. A jet aircraft is traveling at Mach 2.26 through the air at 9.27 °C. What is the jet's speed in m/sec? Answer: _____

3. What is the frequency of a wave that travels at a speed of 8.99 m/s and has a wavelength of 4.14 m? Answer: _____

4. What is the wavelength of a wave that travels at a speed of 3.67 m/s and has a frequency of 8.32 Hertz? Answer: _____

5. What is the speed of a wave that has a wavelength of 8.89 m and a frequency of 4.59 Hertz? Answer: _____

6. What is the wavelength of a wave that travels at a speed of 72.4 m/s and has a frequency of 11.1 Hertz? Answer: _____

7. What is the frequency of a wave that travels at a speed of 6.28 m/s and has a wavelength of 1.48 m? Answer: _____



Physical Science Sound Calculations

Robert Elliot Steel



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Calculator-active Materials ,1997 **Natural science examination papers. Physics** Robert Elliot Steel,1890
Manual of Physics: Being an Introduction to the Study of Physical Science William Peddie,1892 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science** ,2003-11
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Ensminger, Leonard J. Bond, 2024-02-21 Updated revised and restructured to reflect the latest advances in science and applications the fourth edition of this best selling industry and research reference covers the fundamental physical acoustics of ultrasonics and transducers with a focus on piezoelectric and magnetostrictive modalities It then discusses the full breadth of ultrasonics applications involving low power sensing and high power processing for research industrial and medical use This book includes new content covering computer modeling used for acoustic and elastic wave phenomena including scattering mode conversion transmission through layered media Rayleigh and Lamb waves and flexural plates modern horn design tools Langevin transducers and material characterization There is more attention on process monitoring and advanced nondestructive testing and evaluation NDT NDE including phased array ultrasound PAUT long range inspection using guided ultrasonic waves GUW internally rotary inspection systems IRIS time of flight diffraction TOFD and acoustic emission AE These methods are discussed and applied to both metals and nonmetals using illustrations in various industries including now additionally for food and beverage products The topics of defect sizing capabilities and limitations including the probability of detection POD are introduced Three chapters provide a new treatment of high power ultrasonics for both fluids and solids and again with examples of industrial engineering food and beverage pharmaceuticals petrochemicals and other process applications Expanded coverage is given to medical and biological applications covering diagnostics therapy and at the highest powers surgery Key Features Provides an overview of fundamental analysis and transducer technologies needed to design and develop both measurement and processing systems Considers applications in material characterization and metrology Covers ultrasonic nondestructive testing and evaluation and high power ultrasonics which involves interactions that change the state of material Highlights medical and biomedical applications of ultrasound focusing on the physical acoustics and the technology employed for diagnosis therapy surgery and research This book is intended for both the undergraduate and graduate scientists and engineers as well as the working professional who seeks to understand the fundamentals together with a holistic treatment of the field of ultrasonics and its diversity of applications *Chemical News and Journal of Physical Science* ,1870

History of the Inductive Sciences William Whewell, 2023-06-16 Reprint of the original first published in 1857 The publishing house Anatiposi publishes historical books as reprints Due to their age these books may have missing pages or inferior quality Our aim is to preserve these books and make them available to the public so that they do not get lost The Chemical News and Journal of Physical Science ,1887 Ocean Observation based on Underwater Acoustic Technology, volume II Xuebo Zhang, Haixin Sun, Arata Kaneko, Suleman Mazhar, 2024-12-02 Since the sound wave is the only information carrier that can propagate long distances in the ocean underwater acoustic technology based on sound waves undoubtedly plays an important role in ocean observation The development of underwater acoustic technology requires the support of various underwater acoustic sensors and signal processing techniques The function of an underwater acoustic sensor is to conduct the conversion between an underwater acoustic signal and an electric signal Their

performance directly determines the quality of underwater acoustic equipment. However, the harsh environment such as high pressure, high temperature, and highly corrosive fluids, as well as different requirements such as low frequency, broad bandwidth, high power, and deep water, often affect the physical properties of materials and structural performance of transducers, which deteriorates the transducer performance. Due to the lack of comprehensive research on key techniques, including material physical properties and interfacial bond properties, the reliability of structural components is often seriously affected by environmental conditions, which may lead to major performance degradation or even failure with the device performance. Therefore, it is challenging for the transducer design to balance the acoustic performance and the device's stability.

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