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This chapter comprises of comprehensive questions and solutions on a very important topic of physics such as questions on Wave dynamics etc. Questions from this chapter are repeatedly in exams and this chapter will guide you through every topics and type of waves such as tension on strings, the speed of sound in air, transverse wave, and dependence of the speed of sound in the air on factors

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Physics (from Ancient Greek: (φυσική) , romanized: physik (ep

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lit. 'knowledge of nature', from ϕ ysis 'nature') is the natural science that studies matter, its motion and behavior through space and time, and the related entities of energy and force. Physics is one of the most fundamental scientific disciplines, and its main goal is to understand ...

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The Physics of Sound 1. The Physics of Sound . Sound lies at the very center of speech communication. A sound wave is both the end product of the speech production mechanism and the primary source of raw material used by the listener to recover the speaker's message. Because of the central role played by sound in speech communication, it is important to have a good understanding of

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how sound ...

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For example, a 15-dB sound at 4000 Hz has a loudness of 20 phons, the same as a 20-dB sound at 1000 Hz. The curves rise at both extremes of the frequency range, indicating that a greater-intensity level sound is needed at those frequencies to be perceived to be as loud as at middle frequencies. For example, a sound at 10,000 Hz must have an intensity level of 30 dB to seem as loud as a 20 dB ...

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Physics of Hearing. Search for: Sound Intensity and Sound Level. Learning Objectives. By the end of this section, you will be able to: Define intensity, sound intensity, and sound pressure level. Calculate sound intensity levels in decibels (dB). Figure 1. Noise on crowded roadways like this one in Delhi makes it hard to hear others unless they shout. (credit: Lingaraj G J, Flickr) In a quiet ...

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This chapter is concerned with the Special Theory of Relativity, which dates from 1905. In 1915 Einstein published an additional theory, called the General Theory of Relativity. This latter theory deals with the extension of the Special Theory to the case of the law of gravitation; we shall not discuss the General Theory here.

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In this chapter, we shall examine the most fundamental ideas that we have about physics—the nature of things as we see them at the present time. We shall not

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discuss the history of how we know that all these ideas are true; you will learn these details in due time. The things with which we concern ourselves in science appear in myriad forms, and with a multitude of attributes. For example ...

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