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Acoustics was originally the study of small pressure waves in air which can be detected by the human ear: sound. The scope of acoustics has been extended to higher and lower frequencies: ultrasound and infrasound. Structural vibrations are now often included in acoustics. Also the perception of sound is an area of acoustical research.

An Introduction to Acoustics

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The Wave Theory of Sound - UMD Physics

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ACOUSTICS

Acoustics is a branch of physics that deals with the study of mechanical waves in gases, liquids, and solids including topics such as vibration, sound, ultrasound and infrasound. A scientist who works in the field of acoustics is an acoustician while someone working in the field of acoustics technology may be called an acoustical engineer.

Acoustics - Wikipedia

The acoustic response of wind instruments is often quantified using the acoustic impedance spectrum, which we discuss below. This specifies how hard it is to make air vibrate at a given frequency, or what acoustic pressure is produced by air vibration at a given frequency. Saxophones operate at peaks in the impedance.