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Frequency, Pitch,

(Hz) 1

가

가

가

20Hz 20,000Hz

가

가

가

Frequency

Frequency is one of the fundamental characteristics of sound, representing the number of oscillations or cycles per unit time in a sound wave. Frequency is measured in Hertz (Hz), indicating the number of cycles per second.

In essence, the frequency of sound determines its pitch. High-frequency sounds have high pitches, while low-frequency sounds have low pitches. For example, high-pitched sounds may include bird chirping, while low-pitched sounds could be associated with bass guitar playing.

In the context of human hearing, the audible frequency range typically falls between 20Hz and 20,000Hz. However, this range can vary depending on factors such as a person's age, hearing abilities, and other individual factors. Sounds with frequencies higher than the audible range are referred to as ultrasonic, while sounds with frequencies lower than the audible range are known as infrasound.

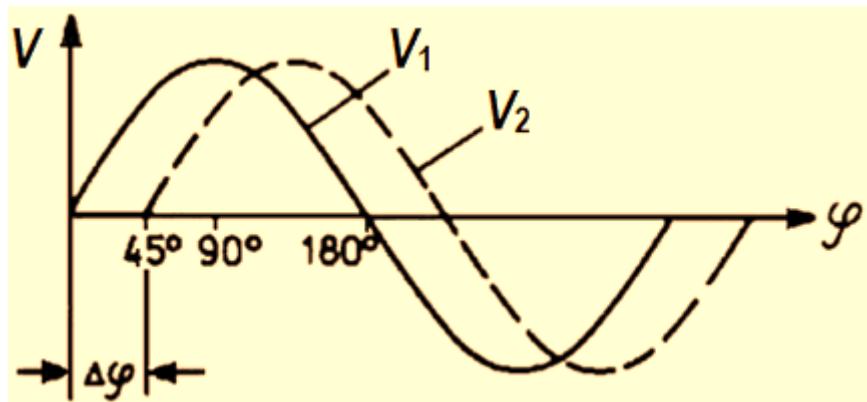
Frequency can influence how sound behaves in specific environments and can be manipulated for various purposes, including music production and noise reduction. Therefore, it is a crucial consideration in fields like sound engineering and acoustics.

1960 Cycle, 1960
(Heinrich hertz) Hertz

(phase) (amplitude) (period)

가

0 360
가 0 ,
가 180 ,
(anti-phase) (radian)
(in-phase)



X, Y X, Y, Z
X, Y , 3D , , X, Y, Z

(wavelength)

)가

가

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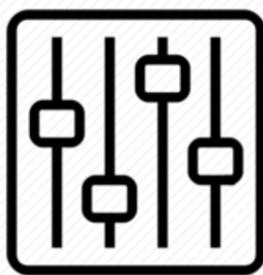
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Online Tone generator

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