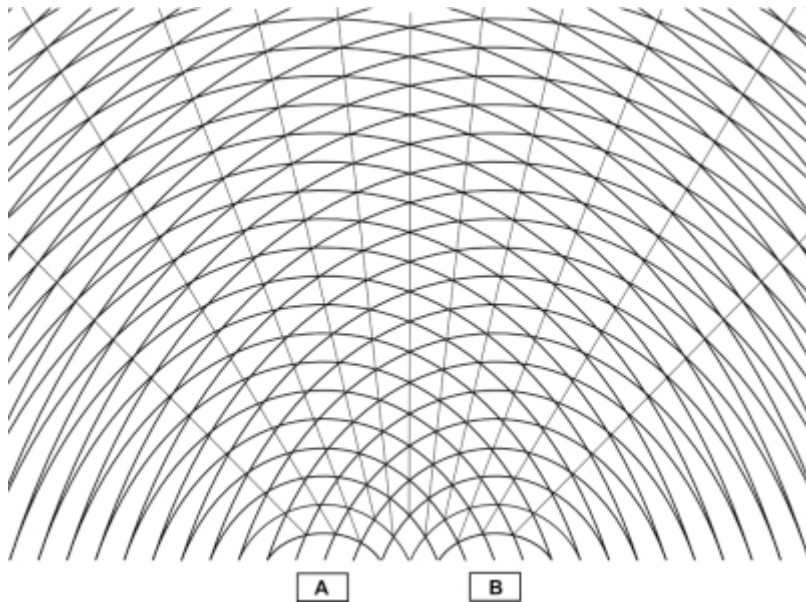
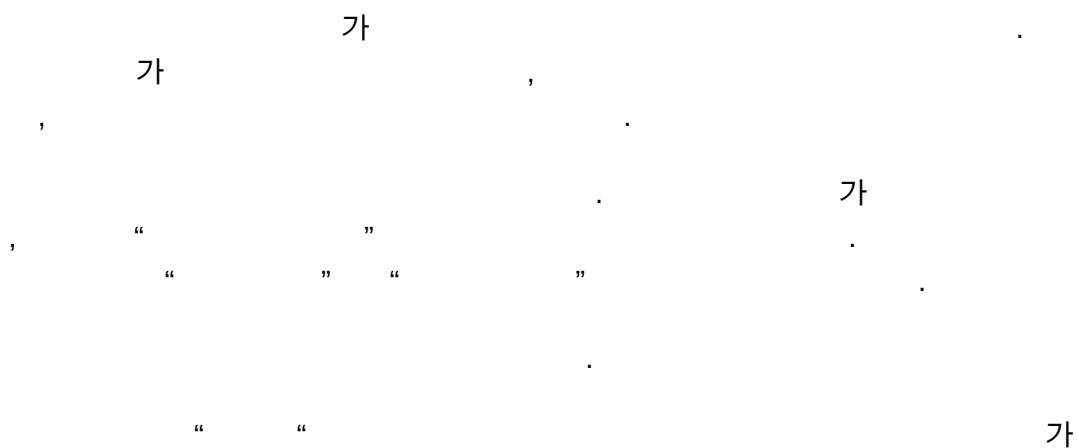




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Interference

The phenomenon of sound interference occurs when two or more sound waves meet and interact with each other. This phenomenon occurs when the amplitudes or frequencies of the sounds overlap, resulting in reinforcement or cancellation effects when different waves meet, thereby altering the volume or quality of the sound.

Two traveling waves which exist in the same medium will interfere with each other. If their amplitudes add, the interference is said to be constructive interference, and destructive interference if they are “out of [phase](#)” and subtract. Patterns of destructive and constructive interference may lead to “dead spots” and “live spots” in auditorium acoustics.

Interference of incident and reflected waves is essential to the production of resonant standing waves.

Interference has far reaching consequences in sound because of the production of “beats” between two frequencies which interfere with each other.

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