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Helmholtz resonance 5

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(Helmholtz Resonance)

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Helmholtz resonance

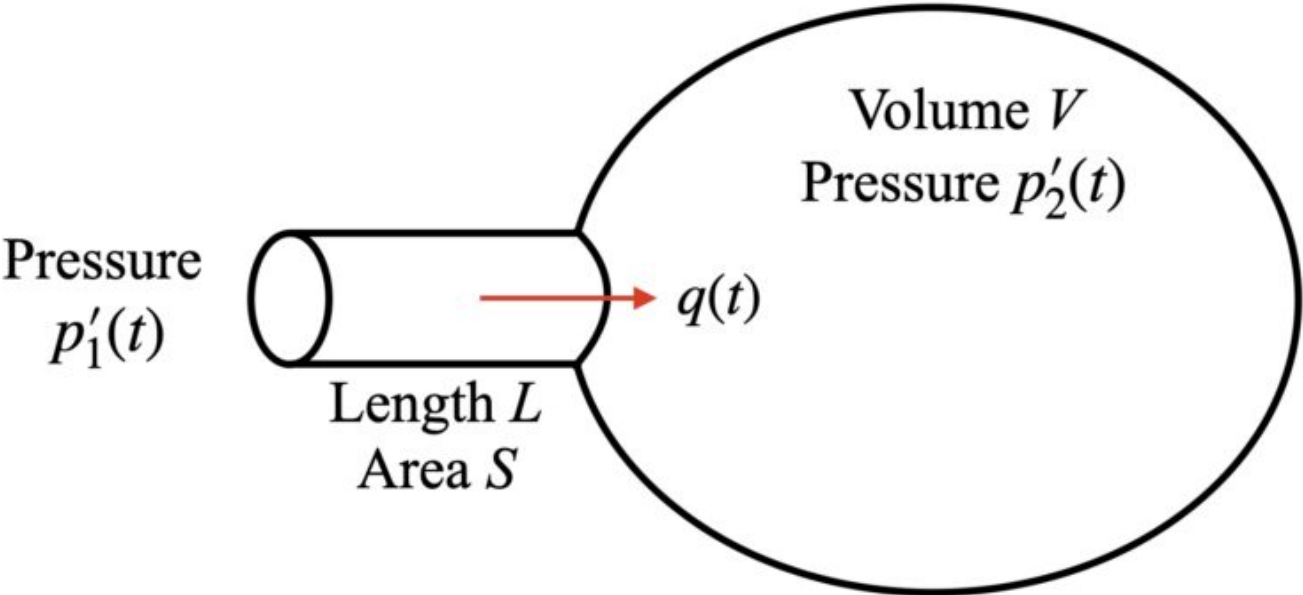
Helmholtz Resonance is the phenomenon of oscillation at a specific frequency within an enclosed structure with an inlet, typically characterized by its shape and internal volume. This resonance occurs when a fluid, such as air, vibrates within a closed space, and the specific frequency of this vibration is determined by the mass of the fluid and the volume of the enclosed space.

Helmholtz Resonance is commonly observed in various applications, including musical instruments and sound engineering, where it can be utilized to amplify certain frequencies or enhance specific acoustic effects. For instance, wind instruments like flutes or ocarinas operate based on the principles of Helmholtz Resonance, producing sound at specific locations within their structure where resonance amplifies the acoustic output.

Therefore, Helmholtz Resonance is a fundamental concept in acoustics and sound engineering, particularly in situations involving enclosed volumes of fluid.

<http://www.acousticmodelling.com/8layers/helmholtz.php>

$$f = \frac{c}{2\pi} \sqrt{\frac{S}{VL}}$$



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Last update: **2024/02/19**

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