

Example

How fast would you need to move toward a sound source to make its apparent frequency increase by 50%?

$$\frac{f_L}{f_s} = \frac{v + v_L}{v + v_s} = 1.5$$

$v_s = 0$, so

$$\frac{v + v_L}{v} = 1.5$$

$$\frac{v_L}{v} = 1.5 - 1$$

$$v_L = 0.5v = 1.72 \text{ m/s}$$

Problems In Optics And Acoustics

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A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the text box.

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Mathematical Problems of Tomography Izrail' Moiseevich Gel'fand,Semen Grigor'evich Gindikin,1990 As early as 1917 Radon derived an explicit formula for the reconstruction of a function on the plane given its integrals over all lines In the late 1960s the first applications of the Radon formula appeared in radio astronomy and then in electron micrography The use of the Radon formula for constructing tomograms made possible by the advent of the computer saw its first use in clinical medicine in 1970 and earned its developers the Nobel Prize in medicine

Atmospheric and Oceanic Optics ,2003 *Philips Technical Review* ,1950 Includes section Abstracts of recent scientific publications of the N V Philips Gloeilampenfabrieken

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