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also the masking of sound signal by
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2.017. Let $p(x,t) = P_0 \sin(\omega t - kx)$

Insert this in the wave equation: $\nabla^2 p = \frac{1}{c^2} \frac{\partial^2 p}{\partial t^2}$

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$k^2 \sin^2(\theta) = \frac{\rho}{E} P_0^2 \sin^2(\theta) \left[\frac{1}{k} \right]^2 = E / \text{Wave speed } c$
 $k = \frac{E}{c}$. This is sound speed in fluid, independent of pressure, or frequency. In water:

Basic Physics of Underwater Acoustics
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Rienstra & A. Hirschberg Eindhoven

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2020 This is an extended and revised
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Introduction. The Special Interest
Group (SIG) for Underwater Acoustics
(SIGUA) is concerned with the
generation, transmission, and

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Reception of sound in the underwater environment including the interaction between sound and underwater surfaces and structures. The principal function of the SIGUA is to provide a forum for researchers, practitioners and users of underwater acoustics, covering analysis, modelling,

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