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2.017. Let  $p(x,t) = P_0 \sin(t - kx)$   
Insert this in the wave equation:  $-P_0 \omega^2$

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

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An Introduction to Acoustics S.W.

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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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acoustics theory and experiment in  
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