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$$\frac{\partial^2 \xi}{\partial t^2} = \frac{K}{\rho} \frac{\partial^2 \xi}{\partial x^2} \quad \text{or} \quad \frac{\partial^2 p}{\partial t^2} = \frac{K}{\rho} \frac{\partial^2 p}{\partial x^2}$$

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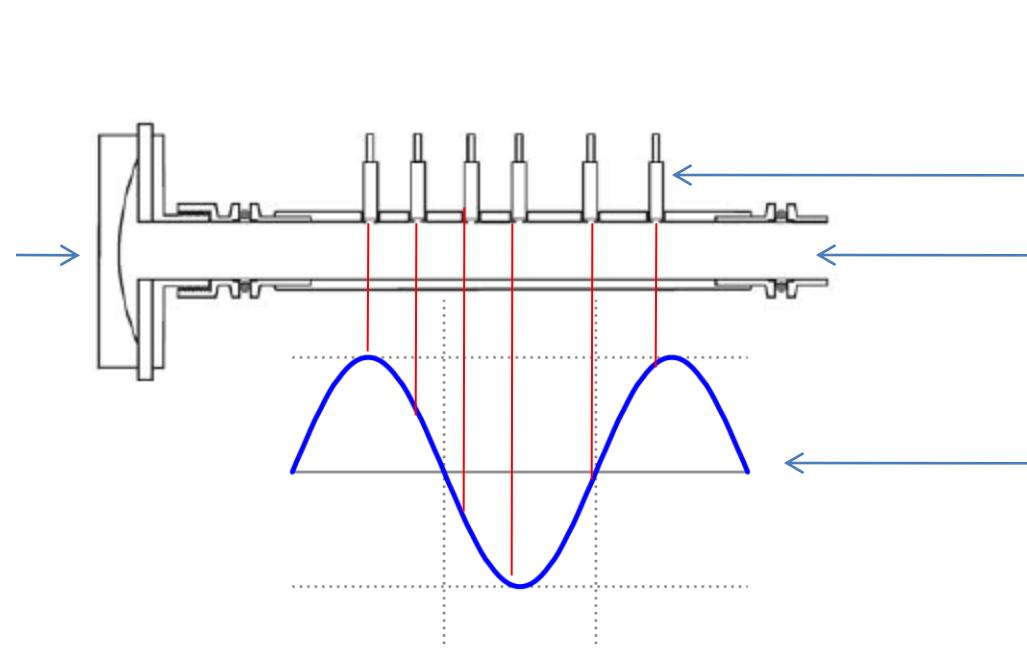
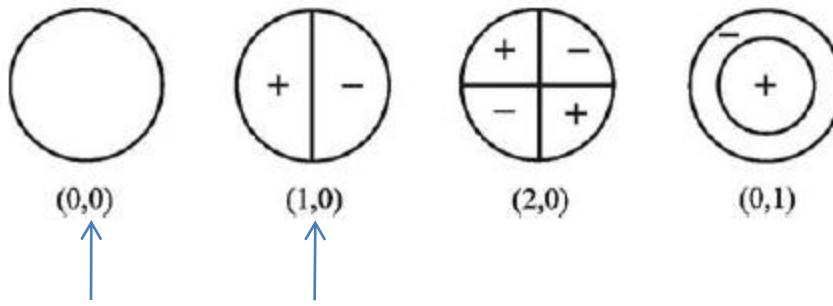
$\xi -$

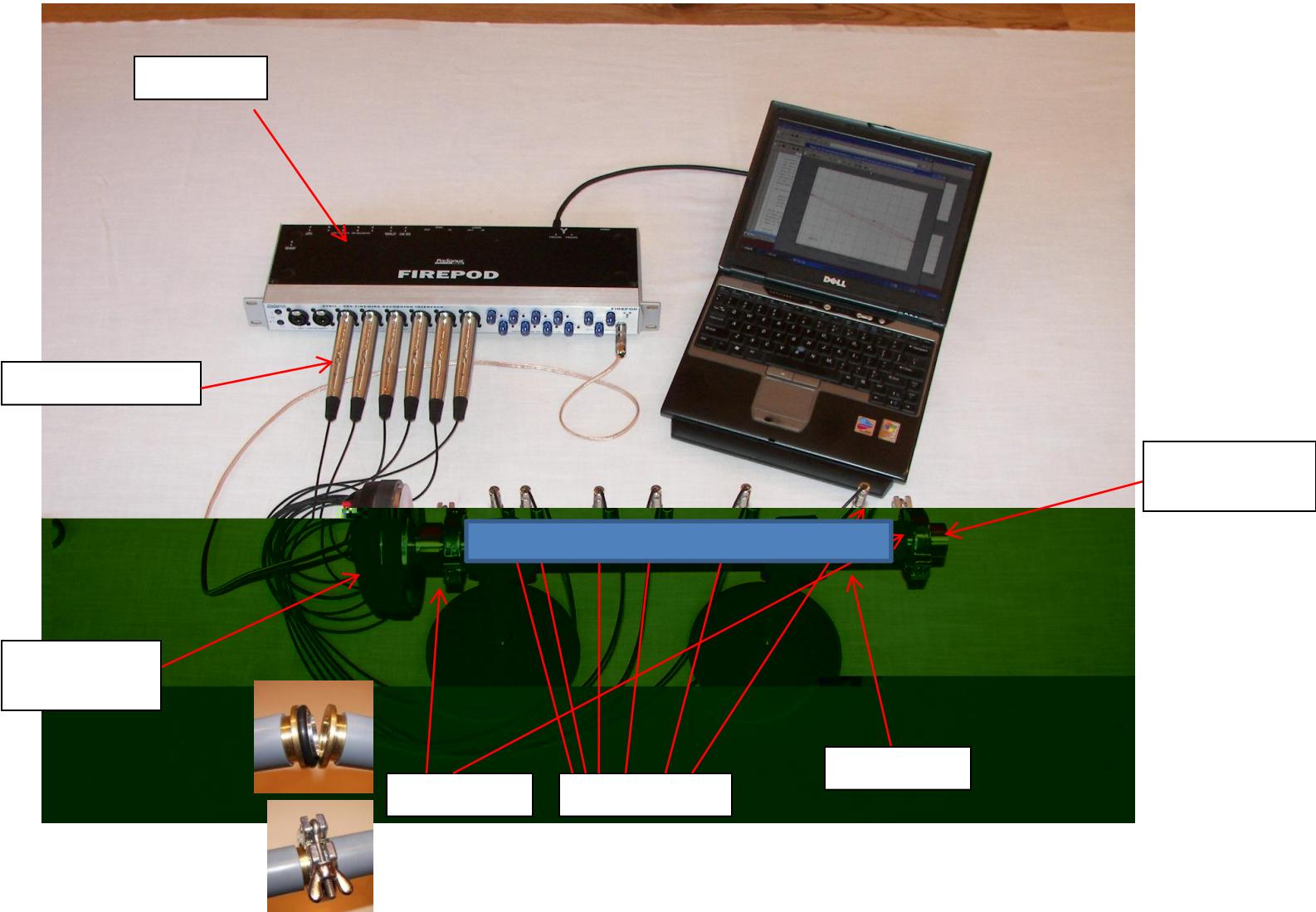
$\rho -$

$$- \quad c^2 = \frac{K}{\rho}$$

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$$\frac{\partial \xi}{\partial t} = 0 \quad \text{or} \quad \hat{n} \cdot \nabla p = 0$$



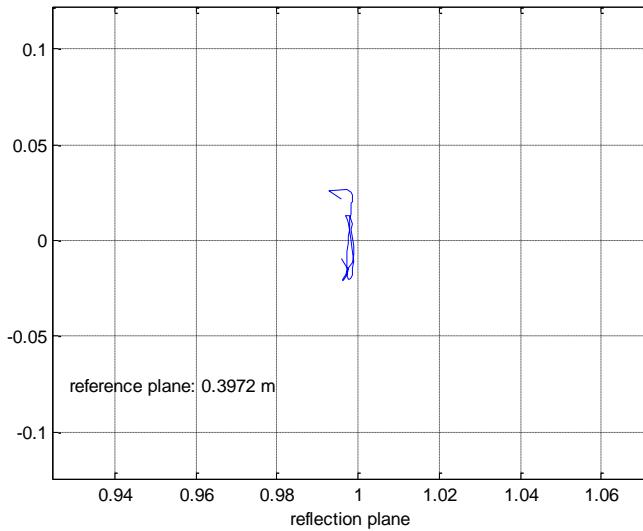
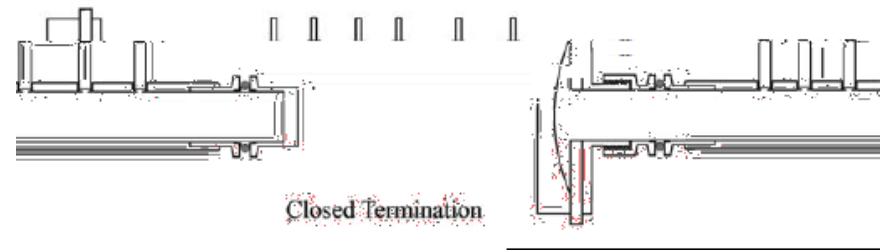


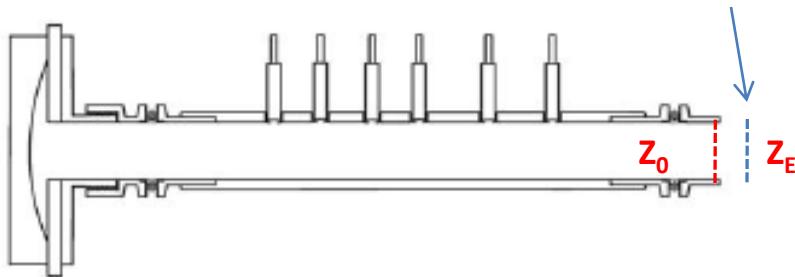
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$$p(x) = Ae^{-ikx} + Be^{ikx}$$

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$$\tilde{R} = \frac{B}{A} e^{2ikx}$$

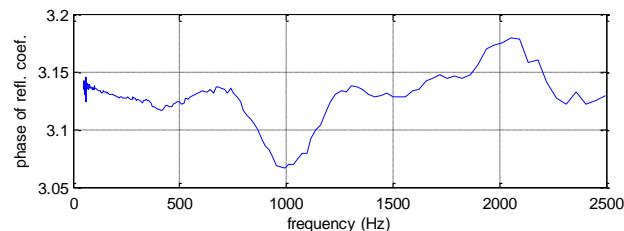
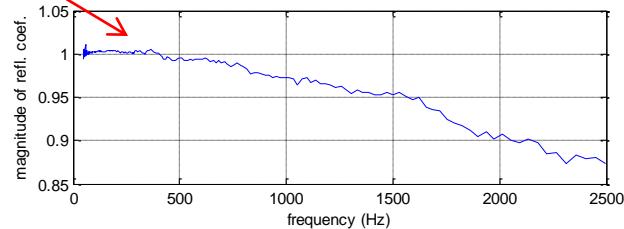
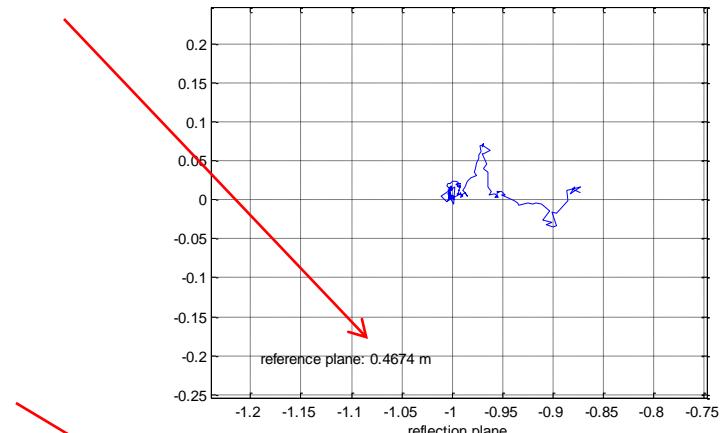


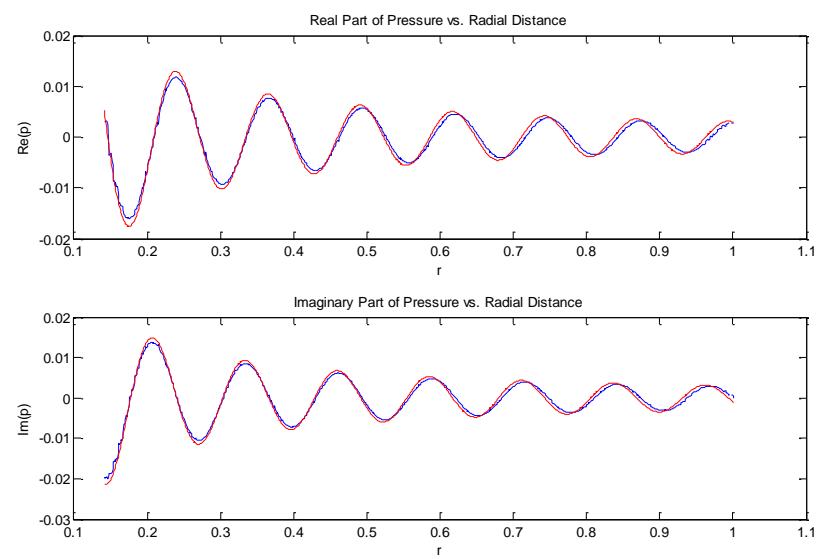
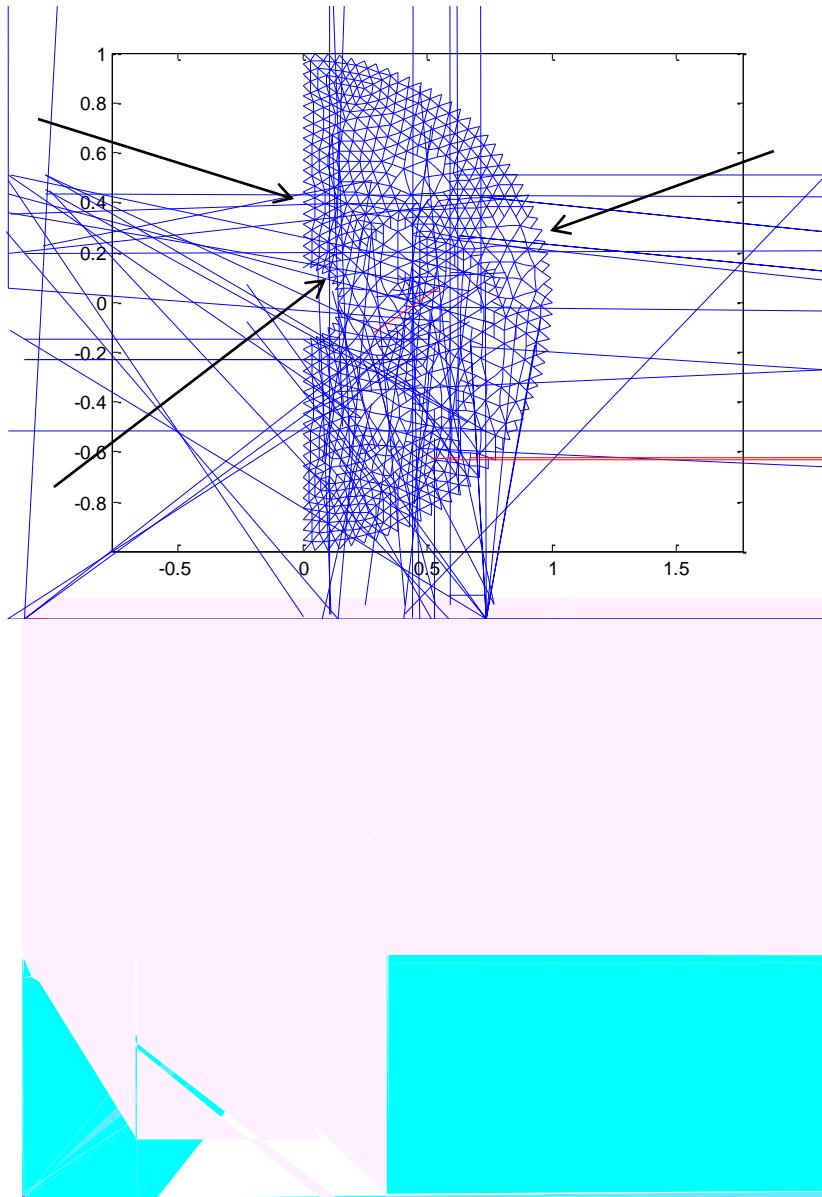


$$Z = \frac{p(x,t)}{U(x,t)} \sim \frac{V(x,t)}{I(x,t)}$$

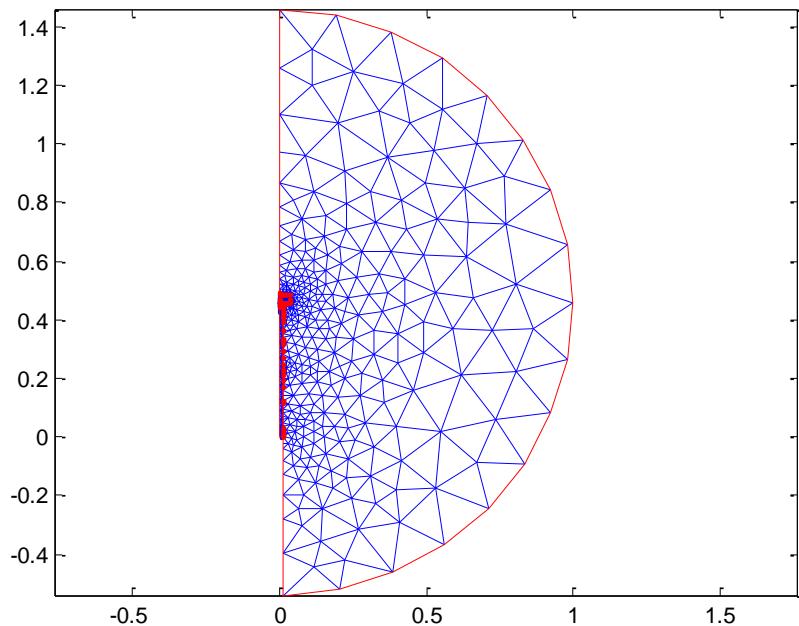
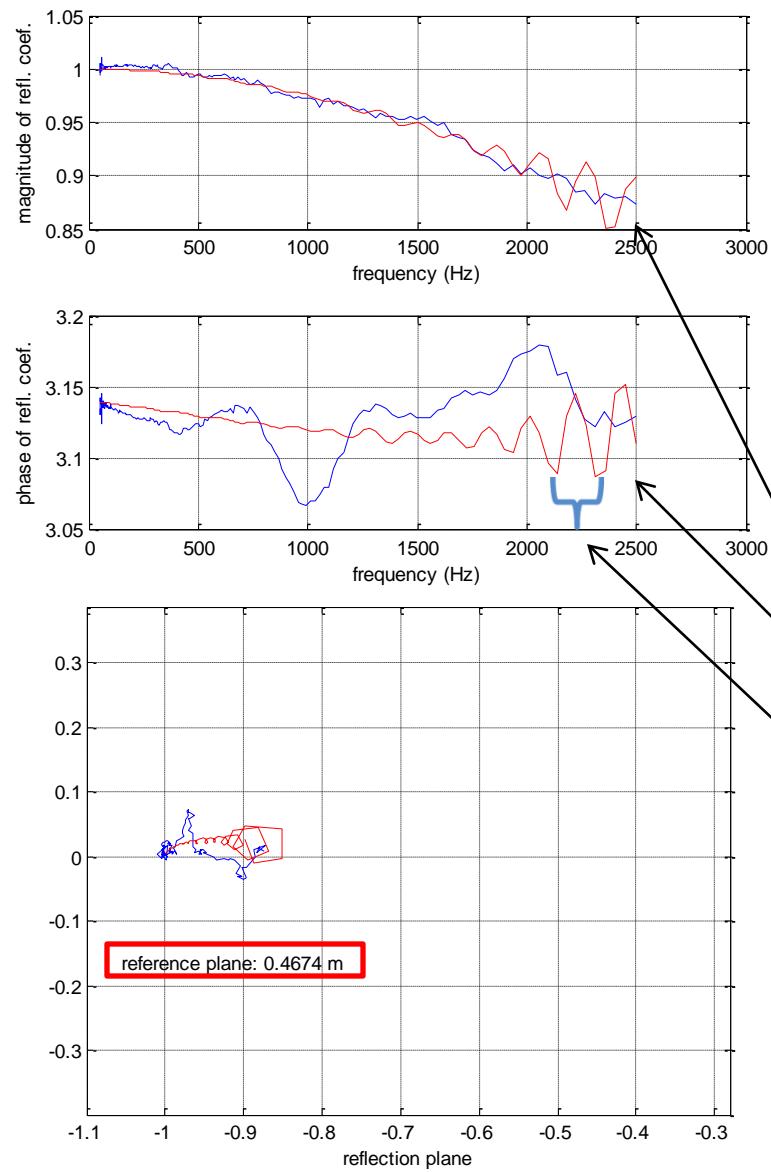
$$\tilde{R} = \frac{B}{A} e^{2ikx} = \frac{Z_E - Z_0}{Z_E + Z_0}$$

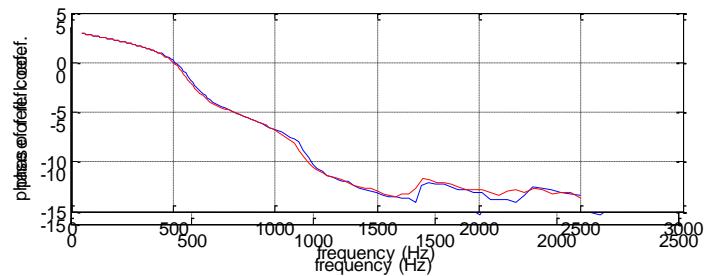
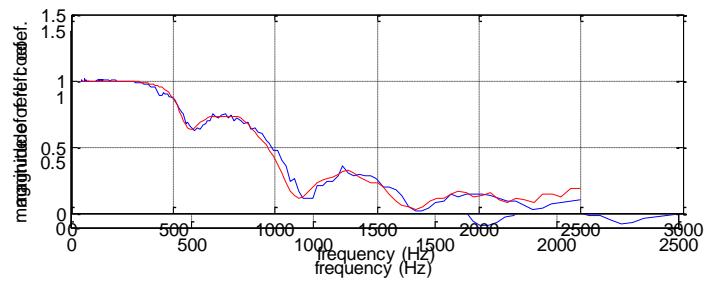
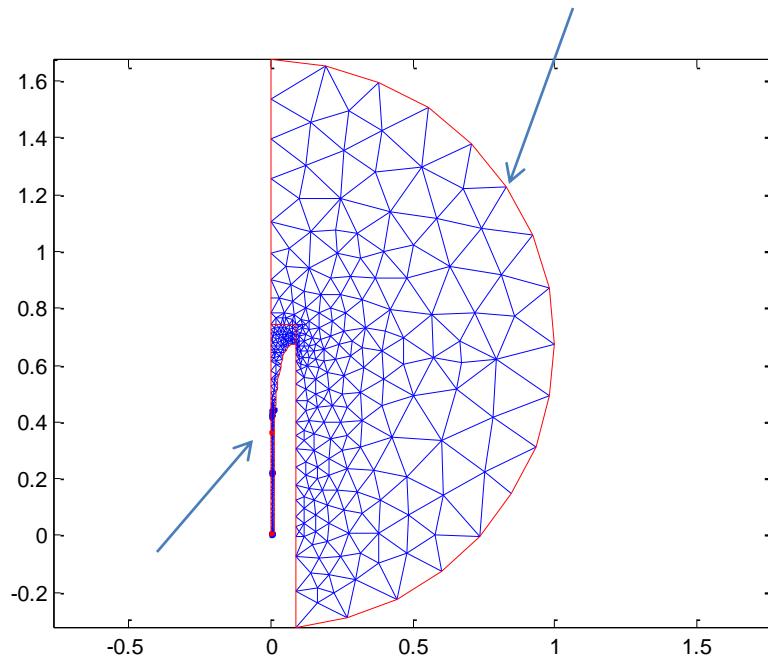
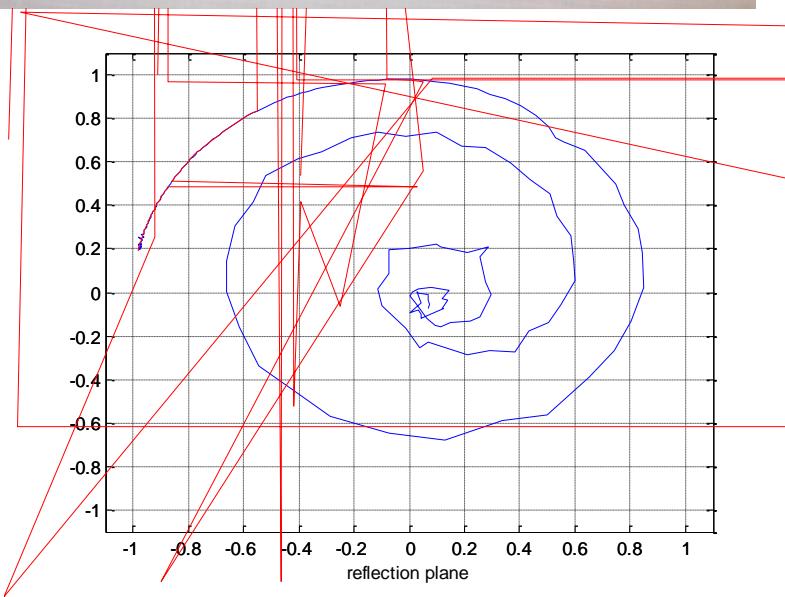
$$\begin{aligned} \infty &\rightarrow R = 1 \\ &\rightarrow R = -1 \end{aligned}$$

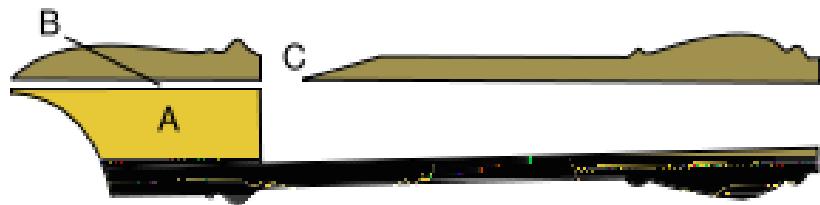




$$p = p_0 \frac{e^{-ikr}}{r}$$

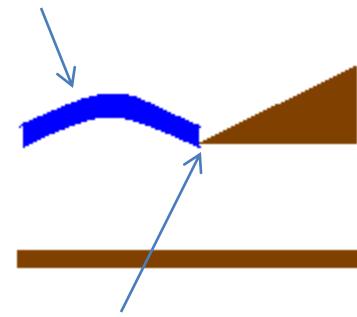
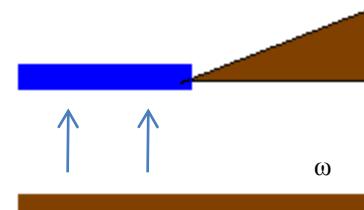






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$\omega$



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