
Assignment 1

- 1. Note the values of refractive indices for the following media from the App.
- 2. Calculate the critical angle for the two media.
- 3. Compare the values with the ones shown in the App.

Formula for critical angle : $(i_c) = \sin^{-1}(n_2/n_1)$

Denser medium n ₁	Rarer medium n ₂	Refractive index		Critical angle (Measured)	Critical angle (Calculated)
		\mathbf{n}_1	n ₂		
Diamond	water	2.42	1.33	33.3	33.2
Water	Air	1.33	1.0003	48.8	48.7
Crown glass N- K5	Air				
Flint glass LF5	water				
Rock salt	water				

Assignment 2

- 1. Change the refractive index values of both media as given in Refraction of Light App.
- 2. Observe the formation of wavefront and give an explanation.