PRE-EXPERIMENT QUIZ

1. Derive the relation $\dfrac{1}{\lambda_g^2} = \dfrac{1}{\lambda_a^2} - \dfrac{1}{(2a)^2}$ for a rectangular waveguide.

2. What is the cut-off wavelength for a rectangular waveguide?

3. What modification, if any, may be required in the relation in question 1, for a circular waveguide?

4. Rewrite the relation in question 1 so that it holds good for any mode supported by a rectangular waveguide.