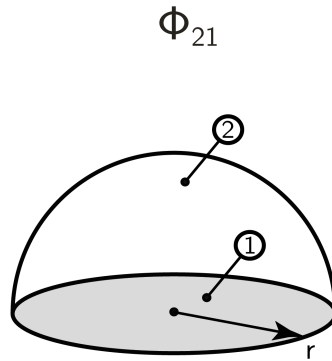


View Factor 54

Determine the view factor Φ_{21} :



A flat circle can never see itself and therefore:

$$\Phi_{11} = 0$$

From the summation rule ($\Phi_{11} + \Phi_{12} = 1$) one finds:

$$\Phi_{12} = 1$$

Using the reciprocity rule ($\Phi_{12}A_1 = \Phi_{21}A_2$):

$$\Phi_{21} = \Phi_{12} \frac{A_1}{A_2} = \frac{\pi r^2}{\frac{1}{2}4\pi r^2} = \frac{1}{2}$$