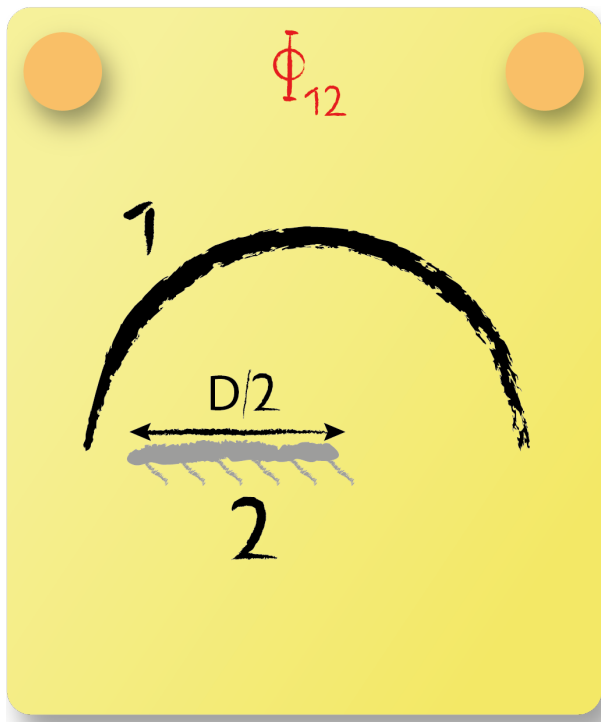




View Factor: Task 39



The image shows a semicircular body 1 and a straight body 2. Body 2's length equals half the sphere's diameter.

1



$$\phi_{12} = \frac{1}{\pi}$$

2



Surface 2 only sees surface 1, therefore Φ_{21} equals 1. Taken into account the reciprocity rule, including surfaces $\frac{A_2}{A_1} = \frac{r_1}{\pi r_1}$, one obtains the view factor Φ_{12} .