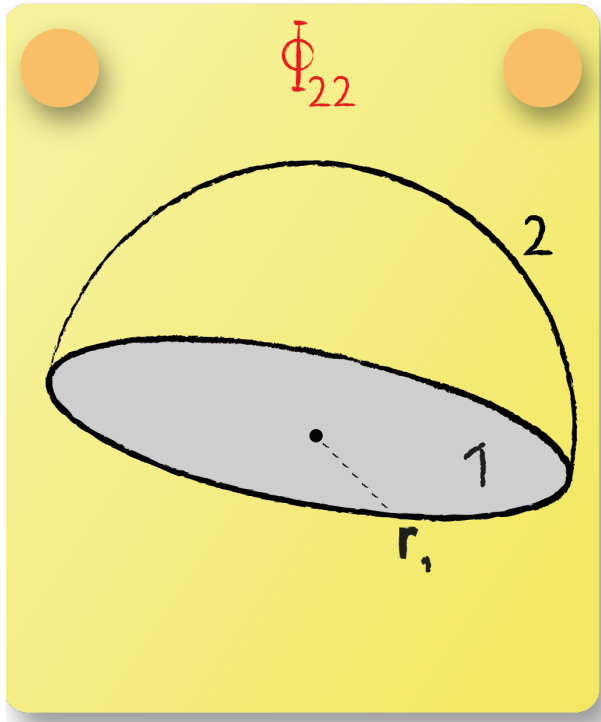


View Factor: Task 46



The image shows a hemisphere consisting of the surfaces 1 and 2.

1



$$\phi_{22} = \frac{1}{2}$$

2



Surface 1 only sees surface 2, therefore Φ_{12} equals 1. Taken into account the reciprocity rule, including surfaces $A_1 = \pi r^2$ and $A_2 = 2\pi r^2$, one obtains the view factor Φ_{21} . View factor Φ_{22} follows from sum rule for Φ_{21} and Φ_{22} .