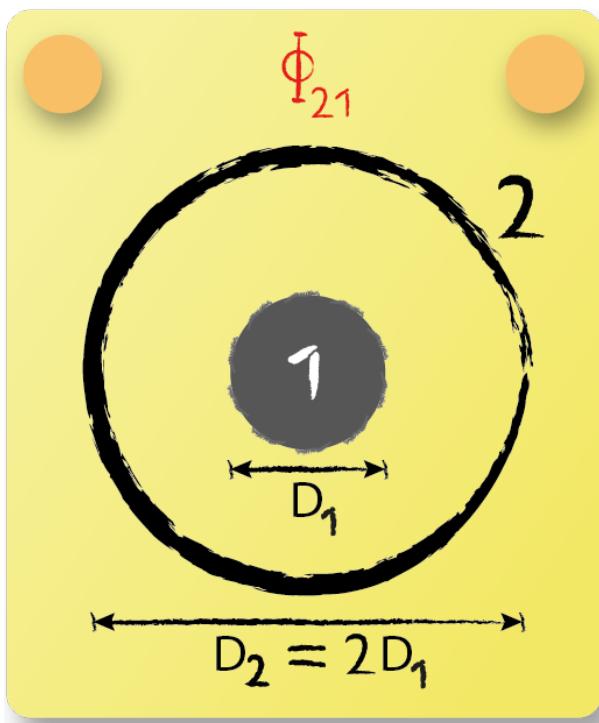


View Factor: Task 3



The image shows two circular bodies. The body 1 is completely inside of body 2. Diameter of body 1 is half of diameter of body 2. What is ϕ_{21} ?

1



$$\phi_{21} = 1/2$$

2



According to the reciprocity rule, the equation is $\phi_{2,1} = (A_1/A_2) \cdot (\phi_{1,2})$ and if the circular body area is considered, the equation becomes $\phi_{2,1} = (\Pi \cdot (D_1)) / (\Pi \cdot (2D_1))$. Also, $\phi_{1,2}$ is known as 1.