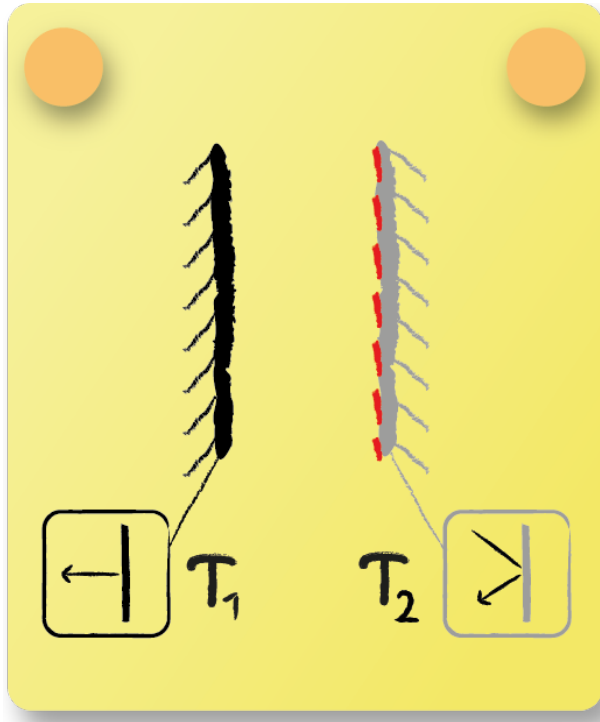


Surface Brightness: Task 7



The image shows two walls. While wall 1 is a black body, wall 2 is a grey body.

1



$$\dot{Q}_2 = \sigma \cdot \epsilon_2 \cdot A_2 \cdot T_2^4 + \sigma \cdot \rho_2 \cdot A_1 \cdot T_1^4$$

2



Since the wall is not transmitting, its surface brightness contains its grey emission and reflection of black radiation arriving from wall 1.