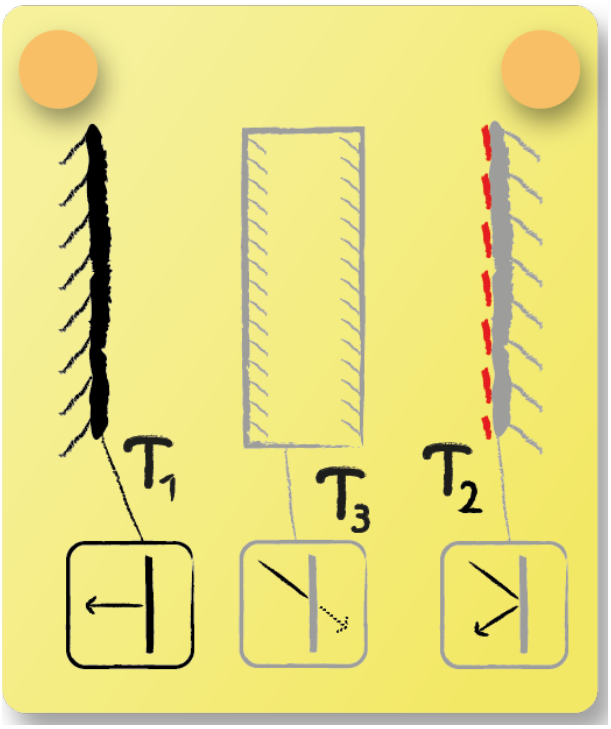
Surface Brightness: Task 10



The image shows three walls, of which wall 1 is a black body. The walls 2 and 3 are grey bodies, while $\tau_2 = 0$ and $\rho_3 = 0$.

1 $\dot{Q}_2 = \rho_2 \cdot Q_{3r} + \sigma \cdot \epsilon_2 \cdot A_2 \cdot T_2^4$

2 The surface brightness of wall 2 contains its emission and reflection of radiation arriving from its neighboring surface. There is no need to pay attention to any radiation left of wall 3s surface, since it is included in its surface brightness.