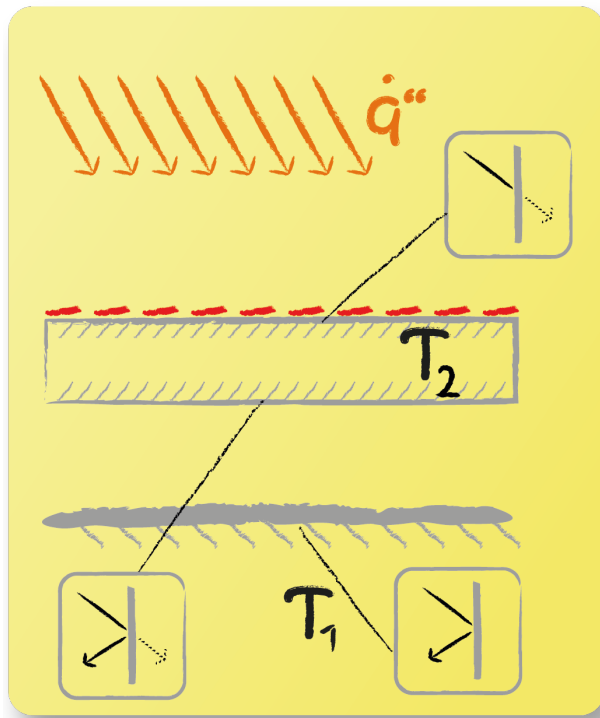


Surface Brightness: Task 30



The image shows two grey bodies. The properties of body 2s bottom and top surfaces differ from each other. While radiation arriving at the top is transmitted but not reflected, radiation on the bottom is transmitted and reflected. Bottom and top surfaces are indicated by indices b and t.

1



$$\dot{Q}_{2t} = \sigma \cdot \epsilon_{2t} \cdot A_2 \cdot T_2^4 + \tau_{2b} \cdot \dot{Q}_1$$

2



The surface brightness of body 2's top surface consists of its emission and transmission of body 1's surface brightness.