

Homework 9.

Two bricks of masses m_1 and m_2 are placed on the table and connected with a weightless and non-stretchable thread. Force F_1 is applied to brick m_1 at an angle α with respect to the horizontal, force F_2 , applied to brick m_2 forms angle β with the horizontal (Figure 1).

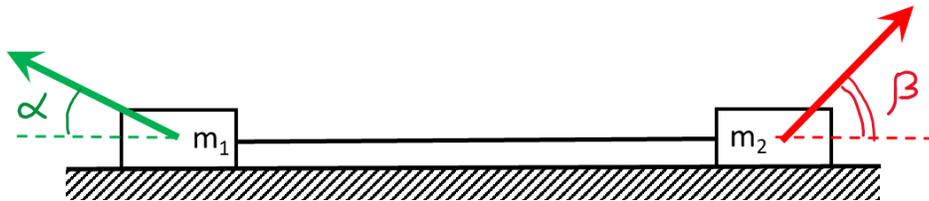


Figure 1.

- Find acceleration of the bricks and tension force of the thread if the table is frictionless.
- Find acceleration of the bricks and tension force of the thread if the friction coefficient between the bricks and the table is k .