

Mcq Test Nls

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QUESTION

Two identical rectangular blocks are placed side-by-side on a horizontal surface. A force F is applied to the right face of the second block, pushing it to the left. The blocks move to the left at a constant velocity. The coefficient of friction between the blocks and the surface is μ . What is the magnitude of the force F ?

ANSWER

The blocks move to the left at a constant velocity, so the net force on each block is zero. Let's consider the first block (the one on the left). The forces acting on it are:

- A normal force N_1 pointing to the right, exerted by the second block.
- A friction force f_1 pointing to the left, exerted by the surface.

Since the net force is zero, we have:

$$N_1 = f_1$$

Now let's consider the second block (the one on the right). The forces acting on it are:

- A normal force N_2 pointing to the left, exerted by the first block.
- A friction force f_2 pointing to the left, exerted by the surface.
- An applied force F pointing to the right, exerted by an external agent.

Since the net force is zero, we have:

$$F = N_2 + f_2$$

We know that $N_1 = N_2$ (Newton's third law), so we can substitute N_1 for N_2 in the equation above:

$$F = N_1 + f_2$$

We also know that $f_1 = \mu N_1$ and $f_2 = \mu N_2$, so we can substitute μN_1 for f_1 and μN_2 for f_2 in the equations above:

$$N_1 = \mu N_1$$
$$F = N_1 + \mu N_2$$

From the first equation, we can solve for N_1 :

$$N_1(1 - \mu) = 0$$

Since N_1 is not zero, we must have $1 - \mu = 0$, which means $\mu = 1$.

Substituting $\mu = 1$ into the second equation, we get:

$$F = N_1 + N_2$$

But we know that $N_1 = N_2$, so we can write:

$$F = 2N_1$$

And from the first equation, we know that $N_1 = f_1 = \mu N_1$, so we can write:

$$F = 2\mu N_1$$

Finally, we can solve for F :

$$F = 2\mu N_1 = 2\mu \left(\frac{F}{2\mu}\right) = F$$

Therefore, the magnitude of the force F is F .

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