

Physics

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(Chapter 7) (Systems of Particles and Rotational Motion) (Additional Exercises)
(Class 11)

Question 7.25:

Two discs of moments of inertia I_1 and I_2 about their respective axes (normal to the disc and passing through the centre), and rotating with angular speeds ω_1 and ω_2 are brought into contact face to face with their axes of rotation coincident. **(a)** What is the angular speed of the two-disc system? **(b)** Show that the kinetic energy of the combined system is less than the sum of the initial kinetic energies of the two discs. How do you account for this loss in energy? Take $\omega_1 \neq \omega_2$.

Answer 7.25:

(a) Moment of inertia of disc I = I_1 and Angular speed of disc I = ω_1
Angular speed of disc II = I_2 and Angular momentum of disc II = ω_2
Angular momentum of disc I, $L_1 = I_1 \omega_1$ and Angular momentum of disc II $L_2 = I_2 \omega_2$
Total initial angular momentum, $L_i = I_1 \omega_1 + I_2 \omega_2$
When the two discs are joined together, their moments of inertia get added up.
Moment of inertia of the system of two discs, $I_f = I_1 + I_2$
Let ω be the angular speed of the system.
Total final angular momentum, $L_f = (I_1 + I_2) \omega$
Using the law of conservation of angular momentum, we have: $L_i = L_f$
 $I_1 \omega_1 + I_2 \omega_2 = (I_1 + I_2) \omega$
 $\therefore \omega = \frac{I_1 \omega_1 + I_2 \omega_2}{I_1 + I_2}$

(b) Kinetic energy of disc I, $E_1 = \frac{1}{2} I_1 \omega_1^2$ and Kinetic energy of disc II, $E_2 = \frac{1}{2} I_2 \omega_2^2$

Total initial kinetic energy, $E_i = \frac{1}{2} (I_1 \omega_1^2 + I_2 \omega_2^2)$

When the discs are joined, their moments of inertia get added up.

Moment of inertia of the system, $I_f = I_1 + I_2$

Angular speed of the system = ω

Final kinetic energy E_f :

$$= \frac{1}{2} (I_1 + I_2) \omega^2 = \frac{1}{2} (I_1 + I_2) \left(\frac{I_1 \omega_1 + I_2 \omega_2}{I_1 + I_2} \right)^2 = \frac{1}{2} \frac{(I_1 \omega_1 + I_2 \omega_2)^2}{I_1 + I_2}$$

$$\therefore E_i - E_f = \frac{1}{2} (I_1 \omega_1^2 + I_2 \omega_2^2) - \frac{(I_1 \omega_1 + I_2 \omega_2)^2}{2(I_1 + I_2)}$$

$$= \frac{1}{2} I_1 \omega_1^2 + \frac{1}{2} I_2 \omega_2^2 - \frac{1}{2} \frac{I_1^2 \omega_1^2}{(I_1 + I_2)} - \frac{1}{2} \frac{I_2^2 \omega_2^2}{(I_1 + I_2)} - \frac{1}{2} \frac{2 I_1 I_2 \omega_1 \omega_2}{(I_1 + I_2)}$$

$$= \frac{1}{2(I_1 + I_2)} \left[\frac{1}{2} I_1^2 \omega_1^2 + I_1 I_2 \omega_1^2 + \frac{1}{2} I_1 I_2 \omega_2^2 + \frac{1}{2} I_2^2 \omega_2^2 - \frac{1}{2} I_1^2 \omega_1^2 - \frac{1}{2} I_2^2 \omega_2^2 - I_1 I_2 \omega_1 \omega_2 \right]$$

$$= \frac{I_1 I_2}{2(I_1 + I_2)} [\omega_1^2 + \omega_2^2 - 2\omega_1 \omega_2] = \frac{I_1 I_2 (\omega_1 - \omega_2)^2}{2(I_1 + I_2)}$$

All the quantities on RHS are positive. $\therefore E_i - E_f > 0 \Rightarrow E_i > E_f$

The loss of KE can be attributed to the frictional force that comes into play when the two discs come in contact with each other.

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M Lipman



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