

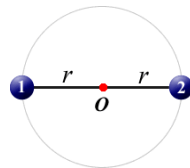
Chapter 11. Rotational Dynamics and Static Equilibrium

I. Torque

1. A child attempts to spin a merry-go-around by applying a tangent force of 10 N. Given that the merry-go-around is 10 m in diameter, find the torque applied by the child.

II. Torque and Angular Acceleration

1. Masses m_1 and m_2 attached to a massless rod rotate about point O in a horizontal plane. Calculate the angular acceleration of the system if the torque applied to it is equal 10 N-m, $r = 1$ m, $m_1 = 1$ kg, and $m_2 = 2$ kg.



III. Zero Torque and Static Equilibrium