

Distinguish, differentiate, compare and explain what is the difference between Torque and Moment in physics. Comparison and Differences.

To make an object rotate, a force must be applied in the right place. The combination of force and point of application is called Torque. Rotational inertia is a parameter that is used to quantify how much torque it takes to get a particular object rotating. It depends not only on the mass of the object, but where the mass is relative to the hinge or axis of rotation. The rotational inertia is bigger, if more mass is located farther from the axis.

Comparison and Difference between Torque and Moment

1. Torque is a movement force or dynamic force and it is commonly used for wheels and rotating objects while Moment is a static force.
2. Torque is often presented as Nm/revolution whereas Moment is typically presented as Nm.
3. Torque tends to be used when there is an axle or pivot to be turned around. Moment tends to be used in essentially non-rotational situations such as analysis of forces on a beam.