

# Law of Rotational Inertia

Rajeev Kumar\*

## **Abstract**

Rotational inertia of a body measures the opposition that the body exhibits to having its angular velocity of rotation altered. In this paper the law of rotational inertia has been presented.

**Keyword :** Rotational inertia.

## **LAW OF ROTATIONAL INERTIA**

A rigid body rotating about a stationary or translating axis passing through the centre of mass of the rigid body, will keep on rotating with constant angular velocity unless disturbed by an external force whose line of action does not pass through the centre of mass of the rigid body.

## References

1. Irving H. Shames, "*Engineering Mechanics: Statics and Dynamics, 4th Edition.*"