

[Home](#) > Define following terms Fluctuation of energy, co-efficient of fluctuation of energy, co-efficient of fluctuation speed, maximum fluctuation of energy

---

Define following terms Fluctuation of energy, co-efficient of fluctuation of energy, co-efficient of fluctuation speed, maximum fluctuation of energy

**Question:**

**Define following terms :**

**Fluctuation of energy, co-efficient of fluctuation of energy, co-efficient of fluctuation speed, maximum fluctuation of energy.**

**Answer:**

**Fluctuations of energy:** The variations of energy above and below the mean resisting torque line are called fluctuations of energy.

**Coefficient of fluctuation of energy:** It may be defined as the ratio of the maximum fluctuation of energy to the work done per cycle. Mathematically, Coefficient of fluctuation of energy,  $E = \frac{\text{Maximum fluctuation of energy}}{\text{Work done per cycle}}$

**Coefficient of fluctuation of speed:** The difference between the maximum and minimum speeds during a cycle is called the

maximum fluctuation of speed. The ratio of the maximum fluctuation of speed to the mean speed is called the coefficient of fluctuation of speed.

**Maximum fluctuation of energy:**  $\Delta E = \text{Maximum energy} - \text{Minimum energy} = (E + a_1) - (E + a_1 - a_2 + a_3 - a_4) = a_2 - a_3 + a_4$

---