Define: (i) Coefficient of fluctuation of speed. (ii) Coefficient of fluctuation of energy.

Question:
Define:
(i) Coefficient of fluctuation of speed.
(ii) Coefficient of fluctuation of energy.

Answer:
(i) Coefficient of fluctuation of speed: Coefficient of fluctuation of speed is defined as the ratio of the maximum fluctuation of speed to the mean speed. It is denoted by C s.
Mathematically,
C s = (N 1 – N 2) /N
Where, N 1 = maximum speed in rpm;

N 2 =minimum speed in rpm; N = mean speed in rpm

(ii) Coefficient of fluctuation of energy: Coefficient of fluctuation of energy may be defined as the ratio of the maximum fluctuation of energy to the work done per cycle. It is denoted by Ce.
Mathematically,

Ce = Maximum fluctuation of energy/ Work done per cycle.