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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 = 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,

= Maximum fluctuation of energy/ Work done per cycle.				