Quiz # 4

ESM2204 Spring 2011

Instructor: R.D. Kriz

Which statement listed below is not true.

1) Power = (Torque) x (angular rotational velocity, ω)

2) Power = (Torque) x (rotation, ø) / (time)

3) Power = [N] x [m] x [rad] / [sec]

4) Power = [N] x [m] / [sec]

$T = P/2\pi f$

5) Frequency [Hz], f = (Power, P) / { (Torque, T) x (π/2̶) }

2π

6) 1 RPM = 1/60 [cycles]/[sec]

7) 1 [watt] x 1 [sec] = 1 [joule] = 1 [N] x 1 [m]

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Dimensional notation: meters [m], force [N], time [sec], etc.

Acronym: RPM, Revolutions Per Minute

Conversions: 2π [rad] = 360 [degrees]