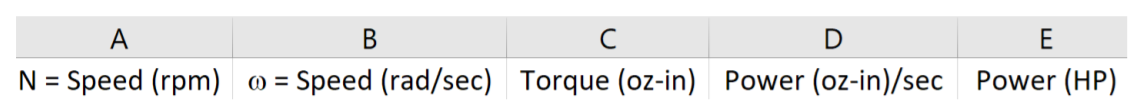
1) What type or types of electric motor would you specify…

1. To drive a load with large inertia
2. To minimize variation of speed with load variation
3. To maintain accurate constant speed regardless of load variations.

2) The torque-speed curve for a 1/8 HP permanent magnet (PM) DC motor is shown below in Figure P2-3. The rated speed for the fractional horsepower motor is 2500 rpm at a rated voltage of 130 V. Determine…

1. The rated torque in oz-in (ounces -inches—the U.S. industry standard for fractional hp motors)
2. The no-load speed.
3. Plot the power-torque curve and find the maximum power that the motor can deliver.

Hint: Create an Excel spreadsheet with columns…



Use Formulas on Page 2 of 9 in HO\_Motors and Drivers.pdf

Create a plot with… Speed (rpm) as x-axis, Torque (oz-in) left y-axis and Power (HP) right y-axis