

**FIGURE P2-3**

Torque-speed characteristic of a 1/8 hp, 2500 rpm, PM DC motor for Problem 2-20

- 2-20 The torque-speed curve for a 1/8 hp permanent magnet (PM) DC motor is shown in Figure P2-3. The rated speed for this fractional horsepower motor is 2500 rpm at a rated voltage of 130 V. Determine:
- The rated torque in oz-in (ounce-inches, the U.S. industry standard for fractional hp motors)
  - The no-load speed
  - Plot the power-torque curve and determine the maximum power that the motor can deliver.