

Ch. 25: Brushless DC motors

25.1)

How do the terminal-to-terminal inductances compare between a Wye-connected and a delta-connected motor?

25.3)

What is the relationship between mechanical and electrical degrees for a BLDC motor with 48 internal poles?

25.6)

Explain why a high-resolution encoder is necessary to achieve the smoothest torque output when using sinusoidal drive.

25.9)

Cite three reasons for why a brushless DC motor would be a superior choice over a brushed motor in a laptop computer cooling application.

25.10)

What is the alternative to block commutation for a brushless DC motor? Why would a designer choose block commutation?