

QUESTIONS & ANSWERS

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NCEES

FE Electrical and Computer

NCEES - FE Electrical and Computer (Test Engine)



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Question

An existing synchronous motor is retrofitted from 50Hz, 4-pole construction to a 60Hz 2-pole construction. Calculate the change in its synchronous speed.

- (A) 1500 rpm (B) 2100 rpm
(C) 3600 rpm (D) 0 rpm

Option A

Option B

Option C

Option D

Question

Calculate the slip of a 2-pole 600V induction motor operating at 60Hz with a rotational speed of 3400 rpm.

- Option A
- Option B
- Option C
- Option D

Enter Answer

Submit Answer

Question

_____ is a triangular pulse with center at $t = -1$, amplitude = 5 and $\tau = 2$.

(A) $5\Lambda\left(\frac{t-1}{2}\right)$

(B) $5\Lambda\left(\frac{t+1}{2}\right)$

(C) $5\Lambda(2(t-1))$

(D) $5\Lambda(2(t+1))$



Option A



Option B



Option C



Option D

Explanation

Triangular pulse centered at $t = t_0$ (time shifting) with amplitude = A (amplitude scaling) and $\tau = 2$ is given as

$A\Lambda\left(\frac{t-t_0}{\tau}\right)$. Therefore, the triangular pulse given in problem statement can be represented as follows:

$$5\Lambda\left(\frac{t - (-1)}{2}\right) = 5\Lambda\left(\frac{t + 1}{2}\right)$$

Question

Consider a time-domain signal $f(t)$. Which one of the following options correctly describe the impact of $f(4t)$?

(A) $f(4t) = 4f(t)$

(B) $f(4t) = f(t)/4$

(C) Time period of $f(4t)$ increases by 4

(D) Time period of $f(4t)$ decreases by 4



Option A



Option B



Option C



Option D

Explanation

$f(4t)$ will compress the time-period of $f(t)$ by a factor of 4. Conversely, $f(t/4)$ will expand the time-period of $f(t)$ by a factor of 4.

Question

Drift current in semi-conductors (at constant temperature) can be increased by _____.

- (A) Increasing applied potential (B) Decreasing applied potential
(C) Increasing surface area (D) Decreasing surface area

Option A

Option B

Option C

Option D

◀ PREV

RESULT ↻

SUMMARY 📄

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✓ ANSWER

📘 EXPLANATION

📄 REFERENCE

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