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Solution: (a) The green wave has an amplitude of 5 V and a period $T = 8$ s. Its peak occurs earlier than that of the red wave; hence, its constant phase angle is positive relative to that of the red wave. A full cycle of 8 s corresponds to 2π in phase. The green wave crosses the time axis 1 s sooner than the red wave.

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Solution: $x = q_3 \mathbf{e}_1 + q_2 \mathbf{e}_2 + q_1 \mathbf{e}_3$, $y = q_1 \mathbf{e}_1 + q_2 \mathbf{e}_2 + q_3 \mathbf{e}_3$. Forces F_1 and F_2 are equal in magnitude, with F_1 pointing along 45° above the x axis and F_2 pointing along 45° below the x axis. The y components cancel. Hence, F_3 is along +x. Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

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(1) The nuclear force, which is the strongest but only relevant on subatomic scales. (2) The electromagnetic force, which occurs between charged particles on microscopic scales. It is times as strong as... (3) The weak-interaction force, which occurs between radioactive elementary particles. It is ...

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Solution: (d) $e = 3 + j2 = 3.61e^{j146.31^\circ}$; $i(t) = \text{Re}\{3.61e^{j146.31^\circ} e^{j\omega t}\} = 3.61 \cos(\omega t + 146.31^\circ)$ A; Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall

Fundamentals of Applied Electromagnetics

Solution: $A = C \cos^2 \theta + z^2 \cos^2 \theta + 2z \cos \theta$, $B = C \cos^2 \theta + z^2 \sin^2 \theta + 2z \sin \theta$. Problem 3.3 In Cartesian coordinates, the three corners of a triangle are $P_1(0, 4, 4)$, $P_2(4, 4, 4)$, and $P_3(2, 2, 4)$. Find the area of the triangle. Solution: Let $B = P_1P_2$, $x^2 + y^2 = 8$ and $C = P_1P_3$, $x^2 + z^2 = 8$ represent two sides of the triangle.

Chapter 3: Vector Analysis - PHP

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