

# **Fundamentals Of Applied Electromagnetics Solution Manual**

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## Fundamentals Of Applied Electromagnetics

Solution Solution:  $x = q_3 / \epsilon_0 E_1 - q_2 / \epsilon_0 E_2$   $y = F_e 3 = F_e 31 + F_e 32$  Forces  $F_e 31$  and  $F_e 32$  are equal in magnitude, with  $F_e 31$  pointing along  $45^\circ$  above the  $x$  axis and  $F_e 32$  pointing along  $45^\circ$  below the  $x$  axis. The  $\hat{y}$  components cancel. Hence,  $F_e 3$  is along  $+\hat{x}$ .

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(7th Edition ... Write the four fundamental forces of nature and their relative strengths. (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 the nuclear

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(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  $2\pi$  in phase. The green wave crosses the time axis 1 s sooner than the red wave.

Fundamentals of Applied Electromagnetics The solution given by (1.8) leads to (1.3). (b) At  $\omega t = \pi/4$ ,  $y_1(x;t) = A \cos(\pi/4 - \beta x) = A \cos \pi/4 - 2\pi x / \lambda$ ;  $y_2(x;t) = A \cos(\omega t + \beta x) = A \cos \pi/4 + 2\pi x / \lambda$ . Plots of  $y_1$ ,  $y_2$ , and  $y_3$  are shown in Fig. P1.7(b). Figure P1.7: (b) Plots of  $y_1$ ,  $y_2$ , and  $y_3$  versus  $x$  at  $\omega t = \pi/4$ . Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall

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