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Exercise 1.10 A phasor voltage is given by $V_e = j5$ V. Find $v(t)$. Solution: $V_e = j5 = 5e^{j\pi/2}$ $v(t) = \text{Re}[V_e e^{j\omega t}] = \text{Re}[5e^{j\pi/2} e^{j\omega t}] = 5\cos \omega t + \pi/2 = 5\sin \omega t$ (V): Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall

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This page intentionally left blank. Physical Constants. Quantity. Value. Electron charge Electron mass Permittivity of free space Permeability of free space Velocity of light. $e = (1.602\ 177\ 33 \pm 0.000\ 000\ 46) \times 10^{-19}$ C $m = (9.109\ 389\ 7 \pm 0.000\ 005\ 4) \times 10^{-31}$ kg $\epsilon_0 = 8.854\ 187\ 817 \times 10^{-12}$ F/m $\mu_0 = 4 \dots$

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Ulaby, Fundamentals of Applied Electromagnetics, 2004 ...

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