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Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall Exercise 1.4 The wave shown in red in Fig. E1.4 is given by  $u = 5\cos 2\pi t = 8$ . Of the following four equations: (1)  $u = 5\cos(2\pi t - 8 \text{ p} = 4)$ , (2)  $u = 5\cos(2\pi t - 8 + \text{p} = 4)$ , (3)  $u = 5\cos(2\pi t - 8 \text{ p} = 4)$ , (4)  $u = 5\sin 2\pi t = 8$ , (a) which equation applies to the green wave?

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Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall Exercise 1.6 An electromagnetic wave is propagating in the z-direction in a lossy medium with attenuation constant  $\alpha = 0.5 \text{ Np/m}$ .

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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 force.

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Fawwaz T. Ulaby, Eric Michielssen, and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2010 Prentice Hall. Problem 1.18 Complex numbers  $z_1$  and  $z_2$  are given by  $z_1 = 3 + j2$   $z_2 = 1 - j2$  Determine (a)  $z_1 z_2$ , (b)  $z_1 = z_2$ , (c)  $z_2^2$ , and (d)  $z_1 z_2^*$ , all in polar form. Solution: (a) We first convert  $z_1$  and  $z_2$

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Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall Exercise 1.3 The electric field of a traveling electromagnetic wave is given by  $E(z,t) = 10 \cos(\pi \times 10^7 t + \pi z/15 + \pi/6)$  (V/m).

### **Exercise Solutions - Applied Electromagnetics/7e by Ulaby and**

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