14-1. By using (14-1), the effective dielectric constant is equal to
$$\begin{aligned} & \in \text{reff} = \frac{10.-1}{2} + \frac{10-1}{2} \left[1 + 12 \cdot \left(\frac{1}{1-2} \right) \right]^{1/4} = 6.8568 \\ & \text{Using (14-19)}, \quad \frac{W}{h} = 1.2 \\ & \quad = \frac{120 \cdot W}{\sqrt{\text{Ereft}} \left[1.2 + 1.373 + 0.567 \cdot \ln \left(1.2 + 1.444 \right) \right]} \\ & = \frac{120 \cdot W}{2.6185 \left(3.24152 \right)} = 44.415 \text{ obms} \end{aligned}$$

14-2.
$$\epsilon_{\text{reff}} = \frac{68 \cdot 1}{2} + \frac{6 \cdot 8 \cdot 1}{2} \left[1 + 12 \left(\frac{1}{15}\right)\right]^{1/4} = 4.8667$$

At less frequencies, the characteristic impedance can be found by using eq. 04-19), if $\frac{W}{N} > 1$.

Z. $(f = 0) = \frac{120 \, \text{T}}{\sqrt{4.8657} \cdot \left[1.5 + 1.373 + 0.667 \ln(1.5 + 1.444)\right]}$

= 170.889 / (3.6132) = 47.296 ohrs

14-3 a. Using (14-6), the width of the patch is
$$W = \frac{30}{3 \cdot (16)} \sqrt{\frac{2}{10.2+1}} = 3.962 \text{ Cm}$$

$$E = \frac{10.2+1}{2} + \frac{10.2-1}{2} \left[1 + 12 \cdot \left(\frac{0.127}{3.762}\right)\right]^{1/2} = 9.51$$

$$\Delta L = (0.127)(0.412) \frac{(9.51+0.3)}{(9.51-0.3)} \cdot \frac{(3.762)}{0.127} + 0.264) = 0.05455 \text{ cm}$$

$$L = \frac{\lambda}{3} - 20L = \frac{30}{2(16)} \sqrt{2.51} - 2 \cdot (0.05455) = 2931 \text{ cm}$$

b. Using (14-12) and (14-12a)

$$G_{1} = \frac{I_{1}}{120\pi^{4}}, \quad I_{1} = -2 + \cos(x) + xS_{1}(x) + \frac{\sin(x)}{x}, \quad X = k_{0}W$$

$$X = \frac{2\pi}{N_{0}}W = \frac{2\pi}{18.75} (3.96z) = (0.4226) \cdot \pi = 1.3277$$

$$I_{1} = -2 + \cos(1.3277) + (1.3277)(1.204348) + \frac{\sin(1.3277)}{1.3277}$$

$$= 0.57075$$

$$G_{1} = 0.57075 / (120.\pi^{4}) = 4.81916 \times 10^{4} \text{ Siemens}$$

$$G_{2} = 0.57075 / (120.\pi^{4}) = 4.81916 \times 10^{4} \text{ Siemens}$$

$$G_{3} = 0.57075 / (120.\pi^{4}) = 4.81916 \times 10^{4} \text{ Siemens}$$

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