14-1. By using (14-1), the effective dielectric constant is equal to

$$\epsilon_{reff} = \frac{10-1}{2} + \frac{10-1}{2}\left[1+12\cdot\left(\frac{1}{1.2}\right)\right]^{-1/2} = 6.8568$$

Using (14-19), $\frac{W}{h} = 1.2$

$$Z_c = \frac{120\cdot\pi}{\sqrt{\epsilon_{reff}}\left[1.2+1.393+0.667\cdot\ln(1.2+1.444)\right]}$$

$$= \frac{120\cdot\pi}{2.6185\,(3.24152)} = 44.415 \text{ ohms}$$

14-2. $$\epsilon_{reff} = \frac{6.8+1}{2} + \frac{6.8-1}{2}\left[1+12\left(\frac{1}{1.5}\right)\right]^{-1/2} = 4.8667$$

At low frequencies, the characteristic impedance can be found by using eq. (14-19), if $\frac{W}{h} > 1$.

$$Z_c(f=0) = \frac{120\pi}{\sqrt{4.8667}\cdot\left[1.5+1.393+0.667\ln(1.5+1.444)\right]}$$

$$= 170.889/(3.6132) = 47.296 \text{ ohms}$$

14-3 a. Using (14-6), the width of the patch is

$$W = \frac{30}{2(1.6)}\sqrt{\frac{2}{18.2+1}} = 3.962 \text{ cm}$$

$$\epsilon_{reff} = \frac{10.2+1}{2} + \frac{10.2-1}{2}\left[1+12\left(\frac{0.127}{3.962}\right)\right]^{-1/2} = 9.51$$

$$\Delta L = (0.127)(0.412)\frac{(9.51+0.3)}{(9.51-0.3)}\cdot\frac{\left(\frac{3.962}{0.127}+0.264\right)}{\left(\frac{3.962}{0.127}+0.8\right)} = 0.05455 \text{ cm}$$

$$L = \frac{\lambda}{2} - 2\Delta L = \frac{30}{2(1.6)\sqrt{9.51}} - 2(0.05455) = 2.731 \text{ cm}$$

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

$$G_1 = \frac{I_1}{120\pi^2}, \quad I_1 = -2 + \cos(X) + XSi(X) + \frac{\sin(X)}{X}, \quad X = k_0 W$$

$$X = \frac{2\pi}{\lambda_0}W = \frac{2\pi}{18.75}(3.962) = (0.4226)\pi = 1.3277$$

$$I_1 = -2 + \cos(1.3277) + (1.3277)(1.2043\,48) + \frac{\sin(1.3277)}{1.3277}$$

$$= 0.57075$$

$$G_1 = 0.57075/(120\cdot\pi^2) = 4.81916\times10^{-4} \text{ Siemens}$$

Resonant input impedance, $R_{in} = Z_{in} = \frac{1}{2G_1} = 1.0375\times10^3 = 1037.5$ ohms

(Continued)

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Robert E. Collin,Francis J. Zucker

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