

Problem 1.3

A coaxial cable that is assumed lossless has a wavelength of the electric and magnetic fields of $\lambda = 20$ cm at 900 MHz. Find the relative dielectric constant of the insulation.

Solution

Here the wavelength, which is given as the ratio between phase velocity and frequency, can be expressed in terms of the speed of light and the relative dielectric constant (see Problem 1.1 and textbook page 8)

$$\lambda = \frac{c}{f} = \frac{c}{(\sqrt{\epsilon_r})f}$$

from which we find

$$\epsilon_r = \left(\frac{c}{\lambda f}\right)^2 = 2.44$$

Problem 1.4

The electric wave field of a positive z -traveling wave in a medium with relative dielectric constant of $\epsilon_r = 4$ and with frequency of 1 GHz is given by

$$E_z = E_{00} \cos(\omega t - k_1 z) \text{ V/m}$$

- Find the magnetic field if $E_{00} = 10^3$ V/m.
- Determine phase velocity and wavelength.
- Compute the spatial advance of the traveling wave between time intervals $t_1 = 1 \mu\text{s}$ and $t_2 = 7 \mu\text{s}$.

Solution

- From textbook page 8, equation (1.2), we use

$$\frac{E_{00}}{H_{00}} = Z_0 = 377\Omega \left(\frac{1}{\sqrt{\epsilon_r}}\right)$$

$$H_{00} = \frac{E_{00}\sqrt{\epsilon_r}}{377\Omega} = 5.3 \times 10^3 \text{ A/m}$$

- The phase velocity is $v_p = c/(\sqrt{\epsilon_r}) = 1.5 \times 10^8 \text{ m/s}$, from which the wavelength follows as $\lambda = v_p/f = 30 \text{ cm}$.
- We pick $\cos(\omega t_1 - k_1 z) = 1$, and obtain

$$\omega t_1 = k_1 z_1 \Rightarrow z_1 = \frac{\omega t_1}{k} = \frac{2\pi(1\text{GHz}) \times 1\mu\text{s}}{2\pi/\lambda} = 450 \text{ cm}$$

and for $\cos(\omega t_2 - k_1 z_2) = 1$, it is concluded that

$$\omega t_2 = k_1 z_2 \Rightarrow z_2 = \frac{\omega t_2}{k} = \frac{2\pi(1\text{GHz}) \times 7\mu\text{s}}{2\pi/\lambda} = 3150 \text{ cm}$$

Thus, the wave is advanced by 600 cm. The MATLAB routine shown below is used for the computation of the numerical results.

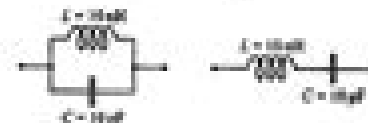
```
% Problem 1.4
%
f = 1e9;
c1 = 3e8;
c2 = 1e8;
wp = (2*pi*f);
%
wty = (2*pi*f)/377;
% spatial 1-way = 30.00 cm, wp = 30.00 m/s (c1/wty,wp);
%
k = (wp*c1)/wp;
R = 100;
%
z1 = (wp*c1)/wty;
z2 = (wp*c2)/wty;
% spatial 1-way = 30.00 m, z1 = 30.00 m, (z1-z2) = 30.00 m (c1, c2, (z1-z2));
%
print -deps 'pl_1_4.eps'
```

Executing the code yields

$wty = 5.31e+003 \text{ A/m}$, $wp = 1.50e+008 \text{ m/s}$
 $z1 = 4.50e+001 \text{ m}$, $z2 = 3.15e+002 \text{ m}$, $(z1-z2) = 4.50e+001 \text{ m}$

Problem 1.5

Find the frequency response of the impedance magnitude of the following series and parallel LC circuits:



Compare your results to the situation when the ideal inductance is replaced by the same inductance and a 5 Ω resistance connected in series. Assume that these circuits operate in the VHF/UHF frequency band of 30–3000 MHz.

Rf Circuit Design Theory And Applications Solutions Manual

Raffaela Di Napoli



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