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Problem 1.4 A wave  
traveling along a

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string is given by.

$$y(x;t)=2\sin(4\pi t+10\pi x)$$

(cm); where  $x$  is the distance along the string in meters and  $y$  is the vertical displacement.

Determine: (a) the direction of wave travel, (b) the reference phase  $\phi_0$ , (c) the frequency, (d) the wavelength, and (e) the phase velocity.



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Exercise 2.1 Use  
Table 2-1 to compute  
the line parameters of  
a two-wire air line  
whose wires are  
separated by a  
distance of 2 cm, and  
each is 1 mm in  
radius. The wires may  
be treated as perfect  
conductors with  $\sigma = \infty$ .

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Figure 9-1: Antenna as

a transducer between

a guided

electromagnetic wave

and a free-space

wave, for both

transmission and

reception.

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which occurs between  
radioactive  
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elementary particles.

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as the nuclear force  
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force, which is  
dominant in  
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Solution:  $x$   $q_3$   $F_{e 31}$

$F_{e 32}$   $q_1$   $q_2$   $y$   $F_{e 3}$

$=F_{e 31} + F_{e 32}$

Forces  $F_{e 31}$  and  $F_{e 32}$

are equal in

magnitude, with  $F_{e 31}$

pointing along  $45^\circ$

above the  $x$  axis and

$F_{e 32}$  pointing along

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45 below the  $x$  axis.

The  $\hat{y}$  components

cancel. Hence,  $F_e$  is

along  $+\hat{x}$ . Fawwaz

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