Elements of electromagnetics 6th edition pdf solutions manual 2017 download

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4.3. For Problem 4.1 determine the polarization of the radiated far-zone electric fields (E_θ, E_ϕ) and normalized amplitude pattern in the following planes:
(a) $\phi = 0°$
(b) $\phi = 90°$
(c) $\theta = 90°$

4-3.

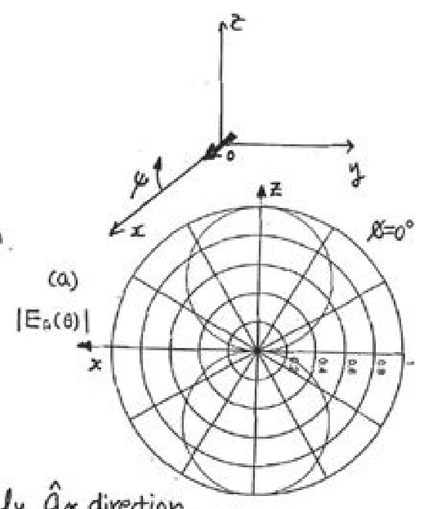
a. $\phi = 0°$ (x-z plane)

$$E_\psi = j\eta \frac{kI_0 l e^{-jkr}}{4\pi r} \sqrt{1-\sin^2\theta}$$

$$\simeq j\eta \frac{kI_0 l e^{-jkr}}{4\pi r} \cdot \cos\theta$$

At $\phi = 0°$, E_ψ has only $\hat{a}_\theta$ direction.

$E_\psi \sim E_\theta$ polarization

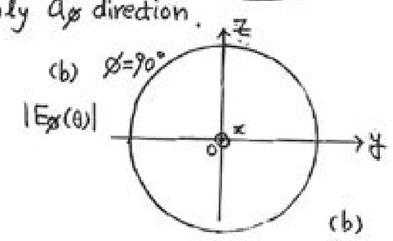


b. $\phi = 90°$ (y-z plane)

$$E_\psi \simeq j\eta \frac{kI_0 l e^{-jkr}}{4\pi r} 1$$

At $\phi = 90°$, (y-z plane), E_ψ has only $\hat{a}_\phi$ direction.

$E_\psi \sim E_\phi$ polarization

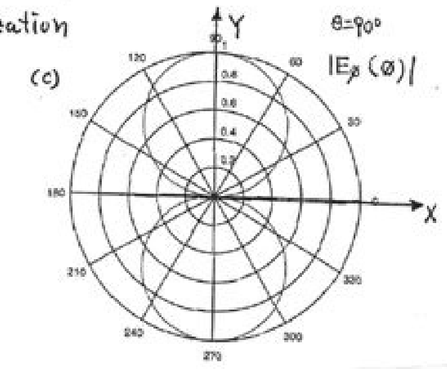


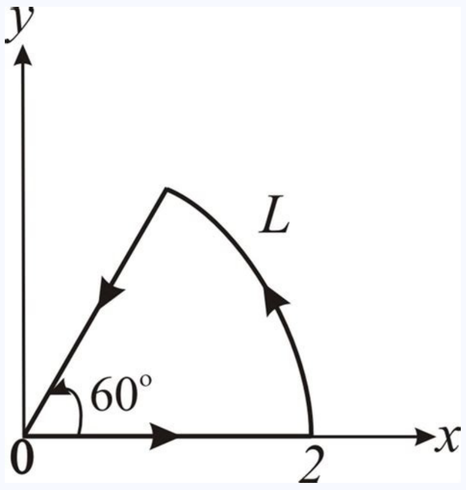
c. $\theta = 90°$ (x-y plane)

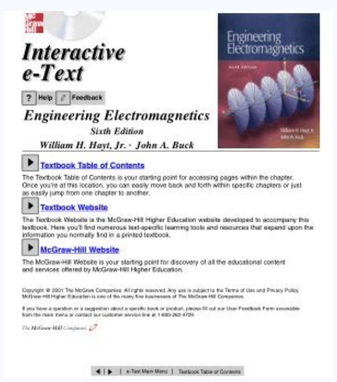
$$E_\psi = j\eta \frac{kI_0 l e^{-jkr}}{4\pi r} \sqrt{1-\cos^2\phi} = j\eta \frac{kI_0 l e^{-jkr}}{4\pi r} \sin\phi$$

At $\theta = 90°$. (x, y), E_ψ has only $\hat{a}_\phi$ direction.

$E_\psi \sim E_\phi$ polarization







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Slide 1 1-1 EE2030: Electromagnetics (I) Text: - Sadiku, Elements of Electromagnetics, Oxford University Reference - William Hayt, Electromagnetic Engineering, Tata McGraw Hill Slide 2 Part 1: Vector Analysis Slide 3 1-3 Vector Adding Associative: Distribution Law: slide 4 1-4 System Rectangular coordinated 5 1-5 local points in rectangular coordinates slide 6 1-6 differential element 7 1-7 summary slide 8 1-8 Vector Field We are accustomed to thinking of a specific vector: A vector field is a function defined in space that has magnitude and direction at all points: where r = (x,y,z) Slide 15 1-15 The Dot Product Commutative Law: Slide 16 1-16 Vector Projections Using the Dot Product B a gives the component of B in the horizontal direction (B a) a gives the vector component of B in the horizontal direction Slide 17 Projection of a vector on another vector Slide 18 1-18 Operational Use of the Dot Product Given Find where we have used: Note also: Slide 19 1-19 Cross Product Slide 20 1-20 Operational Definition of the Cross Product in Rectangular Coordinates Therefore: Or Begin with: where Slide 21 Vector Product or Cross Product Slide 22 1-22 Cylindrical Coordinate Systems Slide 23 1-23 Cylindrical Coordinate Systems Slide 24 1-24 Cylindrical Coordinate Systems Slide 25 1-25 Cylindrical Coordinate Systems Slide 26 1-26 Differential Volume in Cylindrical Coordinates dV = d d dz Slide 27 1-27 Point Transformations in Cylindrical Coordinates Slide 28 1-28 Dot Products of Unit Vectors in Cylindrical and Rectangular Coordinate Systems Slide 29 1-29 Transform the vector, into cylindrical coordinates: Example Start with: Then: Slide 30 Finally: Example: cont. Slide 31 1-31 Spherical Coordinates Slide 32 1-32 Spherical Coordinates Slide 33 1-33 Spherical Coordinates Slide 34 1-34 Spherical Coordinates Slide 35 1-35 Spherical Coordinates Slide 36 1-36 Spherical Coordinates Point P has coordinates Specified by P(r) Slide 37 1-37 Differential Volume in Spherical Coordinates dV = r 2 sin drd d Slide 38 1-38 Dot Products of Unit Vectors in the Spherical and Rectangular Coordinate Systems Slide 39 1-39 Example: Vector Component Transformation Transform the field,, into spherical coordinates and components Slide 40 Constant coordinate surfaces- Cartesian system 1-40 If we keep one of the coordinate variables constant and allow the other To vary, constant coordinate surfaces are generated in rectangular, cylindrical and spherical coordinate systems. We can have infinite planes: x = constant, y = constant, z = constant these surfaces are perpendicular respectively to the axes X, Y and Z. Slide 41 1-41 constant coordinate surfaces- Cylindrical system The orthogonal surfaces in the cylindrical coordinate system can be generated as = constnt = constant z = constant is a circular cylinder, = constant is a semifinished plane with its edge along the axis Z = The constant is an infinite plane as in the rectangular system. Slide 42 1-42 constant coordinate surfaces- Spherical system The orthogonal surfaces in the spherical coordinate system can be generated as r = constant = constant = constant = constant is a circular cone with z axis and origin on the top, = constant is semi-finished as in the cylindrical system. R = constant is a sphere with its center at its origin, Slide 43 Differential elements in rectangular coordinate systems 1-43 Slide 44 1-44 Differential elements in slide 45 1-45 differential elements in spherical coordinate systems Slide 46 1- The integral of the line 46 integral is defined as any integral that must be evaluated along a line. A line indicates a path along a curve in space. Slide 47 Surface Integrals 1-47 Slide 48 Volume Integrals 1-48 Slide 49 Of Operator 1-49 In cylindrical coordinates: Of the operator in spherical coordinates: brief 50 gradient of a field scale 1-50 The gradient of a scalar field V is a vector representing the entity and the direction of the maximum increase space of V. for the Cartesian coordinates for the cylindrical coordinates for the spherical coordinates 51 divergence of a carrier 1-51 in the cartesane coordinates: in the cylindrical coordinates: aisetrac aisetrac ni erottev nu id lruC 45-1 45 edilS 35-1 erottev nu id lruC 35 edilS 25-1 aznegrevid id ameroeT sssuaG 25 alovics :evitisopaid :evitisopaid :evitisopaid :evitisopaid :ehcirefs etanidrooc In cylindrical coordinates: in spherical coordinates: slide 55 slide 56 stakes theorem 1-56 slide 57 laplacian of a scalar 1-57 slide 58 laplacian of a scalar 1-58

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