

Electrotechnology 2B

Test 1 13 September 2017

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Question 1

[10]

Let a point charge $Q_1 = 25 \text{ nC}$ be located at $P_1(4, -2, 7)$ and a charge $Q_2 = 60 \text{ nC}$ be at $P_2(-3, 4, -2)$. Find $\mathbf{E}$ at $P_3(1, 2, 3)$.

Question 2

[5]

An electric flux density is given by $\mathbf{D} = D_0 \mathbf{a}_\rho$, where D_0 is a given constant.

(a) What charge density generates this field?

(b) For the specified field, what total charge is contained within a cylinder of radius a and height b , where the cylinder axis is the z axis?

Question 3

[5]

A uniform surface charge density of 20 nC/m^2 is present on the spherical surface $r = 0.6 \text{ cm}$ in free space.

(a) Find the absolute potential at $P(r = 1 \text{ cm}, \theta = 25^\circ, \phi = 50^\circ)$.

(b) Find V_{AB} , given points $A(r = 2 \text{ cm}, \theta = 30^\circ, \phi = 60^\circ)$ and $B(r = 3 \text{ cm}, \theta = 45^\circ, \phi = 90^\circ)$.

Question 4

[10]

Let $V = 10(\rho + 1)z^2 \cos \phi \text{ V}$ in free space.

(a) Let the equipotential surface $V = 20 \text{ V}$ define a conductor surface. Find the equation of the conductor surface.

(b) Find ρ and $\mathbf{E}$ at that point on the conductor surface where $\phi = 0.2\pi$ and $z = 1.5$.

(c) Find $|\rho_s|$ at that point.

Total Mark Available: [30]

Constants:

$$\epsilon_0 = 8.854 \times 10^{-12} \approx \frac{1}{36\pi} \times 10^{-9} \text{ F/m}$$

$$\mu_0 = 4\pi \times 10^{-7} \text{ H/m}$$

$$\eta_0 = \sqrt{\frac{\mu_0}{\epsilon_0}} \approx 120\pi \text{ } \Omega$$

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