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*Problem 7: The distance between two charges  $q_1 = +2 \mu\text{C}$  and  $q_2 = +6 \mu\text{C}$  is 15.0 cm. Calculate the distance from charge  $q_1$  to the points on the line*

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segment joining the two charges where the electric field is zero. Solution to Problem 7: At a distance  $x$  from  $q_1$  the total electric field is the vector sum of the electric  $E_1$  from due to  $q_1$  and directed to the right and the electric field  $E \dots$

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- 6 -  $dq = \sigma dA = \frac{1}{2} q \sin \theta dq$  where  $q$  is the total charge on the shell. The electric field produced by this ring at  $P$  can be

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calculated using the solution of Problem 2.5:  $dE = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \cos\theta$  The total field at  $P$  can be found by integrating  $dE$  with respect to  $\theta$ :  $E = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \int_0^\pi \frac{\cos\theta}{r^2} \sin\theta d\theta$

### Chapter 2. Electrostatics

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1. If we touch two spheres to each other, find the final charges of the spheres.

Charge per unit radius is found;

$$q_r = \frac{Q_1 + Q_2}{r_1 + r_2} \quad q_r = \frac{(20 - 5)q}{(2r + r)} = 5q/r$$

Charge of first sphere becomes;  $Q_1 = q_r$ .



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$r_1 = 5q/r$ .  $2r = 10q$  Charge of second sphere becomes;  $Q_2 = qr$ .  $r_2 = 5q/r$ .  $r = 5q$  2.

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*Ans. It means that the electrostatic force between the charges reduces to  $1/80$  th times when placed in water medium. Q11.*

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*Why one ignore the quantization of charge when dealing with macroscopic (large charges) charges? Ans. In practice, the charges on bodies are large whereas the charge on electrons are smaller. If electron (of charge  $e$ ) is added or*

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*the force exerted by the charge at point C on the charge at point B. The diagram below shows the direction of these two forces.*

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*If electrostatics problems always involved localized discrete or continuous distribution of charge with no boundary*

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conditions, the general solution for the potential  $U(r) = \frac{1}{4\pi\epsilon_0} \int \frac{\rho(r')}{r} dr'$  (2.1) would be the most convenient and straightforward solution to any problem. There would be no need of the Poisson or Laplace equations.

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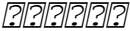
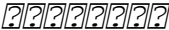

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15.0 cm. Calculate the distance from charge  $q_1$  to the points on the line segment joining the two charges where the electric field is zero. Solution to Problem 7: At a distance  $x$  from  $q_1$  the total electric field is the vector sum of the electric  $E_1$  from due to  $q_1$  and directed to the right and the electric field  $E \dots$

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- 6 -  $dq = \sigma dA = \frac{1}{2} q \sin \theta dq$  where  $q$  is the

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total charge on the shell. The electric field produced by this ring at  $P$  can be calculated using the solution of Problem 2.5:  $dE = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \frac{z-r \cos\theta}{(r^2 + z^2 - 2zr \cos\theta)^{3/2}} r \sin\theta d\theta$  The total field at  $P$  can be found by integrating  $dE$  with respect to  $\theta$ :  $E = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \frac{z-r \cos\theta}{(r^2 + z^2 - 2zr \cos\theta)^{3/2}} r \sin\theta d\theta$

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1. If we touch two spheres to each other, find the final charges of the spheres.

Charge per unit radius is found;

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$q_r = (Q_1 + Q_2) / (r_1 + r_2)$   $q_r = (20 - 5)q / (2r + r) = 5q/r$   
Charge of first sphere becomes;  $Q_1 = q_r$ .  
 $r_1 = 5q/r$ .  $2r = 10q$  Charge of second sphere  
becomes;  $Q_2 = q_r$ .  $r_2 = 5q/r$ .  $r = 5q/2$ .

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 $r_1 = 5q/r$ .  $2r = 10q$  Charge of second sphere

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becomes;  $Q^2 = qr$ .  $r^2 = 5q/r$ .  $r = 5q^2$ .

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*Ans. It means that the electrostatic force*

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between the charges reduces to  $1/80$  th times when placed in water medium. Q11. Why one ignore the quantization of charge when dealing with macroscopic (large charges) charges? Ans. In practice, the charges on bodies are large whereas the charge on electrons are smaller. If electron (of charge  $e$ ) is added or

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*be the force of repulsion exerted by the charge at A on the charge at B and  $F_{CB}$  be the force exerted by the charge at point C on the charge at point B. The diagram below shows the direction of these two forces.*

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*localized discrete or continuous distribution of charge with no boundary conditions, the general solution for the potential  $U(r) = \frac{1}{4\pi\epsilon_0} \int \frac{\rho(r')}{r-r'} d\tau'$  (2.1) would be the most convenient and straightforward solution to any problem. There would be no need of the Poisson or Laplace equations.*

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