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comes from the electric force which drives  
the pieces apart. 2. Coulomb's law for  
electrostatics:  $F = \frac{1}{4\pi\epsilon_0} \frac{kqq}{r^2}$ . The force  
on one electron in the helium atom due to  
the nucleus is  $F = \frac{1}{4\pi\epsilon_0} \frac{kqq}{r^2} = \frac{1}{4\pi\epsilon_0} (2)(2) \frac{r}{k?ee}$ , where  $r$  is the distance from the

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nucleus to the electron,  $-e$  is the charge on the electron and  $+2e$  is the charge of

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Problem 1. Two long straight wires

*Page 18/35*

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carrying the same current  $I$  and separated by a distance  $r$  exert a force  $F$  on each other.

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with the circuit from this problem. This problem assumes that you have calculated the capacitance value.

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1. Find the forces exerted by S poles of magnets given below.  $F = k \cdot M_1 \cdot M_2 / r^2$   
 $= (10^{-7} \cdot 10^{-4} \cdot 10^{-3}) / (0,6)^2$  2.  $F = 10^{-14} / (36 \cdot 10^{-2})$ .  $F = 10^{-12} / 36$ . 2. Find resultant magnetic field at point O, produced by  $I_1$ ,  $I_2$  and  $I_3$ . Magnitudes of magnetic fields;

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Electricity and Magnetism (18 Lectures):  
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field  $E$  due to extended charge  
distributions; Integral and differential

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expressions relating the electric potential  $V$  to the  $E$  field; Potential due to a dipole and other extended charge distributions.  
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