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comes from the electric force which drives the pieces apart. 2. Coulomb ' s law for electrostatics:  $F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$ . The force on one electron in the helium atom due to the nucleus is  $F = \frac{1}{4\pi\epsilon_0} \frac{(2e)(e)}{r^2}$  where  $r$  is the distance from the nucleus to the electron,  $-e$  is the charge on the electron and  $+2e$  is the charge of

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Magnetism Exam1 and Problem Solutions. 1. Find the forces exerted by S poles of magnets given below.  $F = k \frac{q_1 q_2}{r^2} = (10^{-7} \cdot 10^{-4} \cdot 10^{-3}) / (0,6)^2$  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 (book) - Wikipedia

Electricity and Magnetism (18 Lectures): Electric field and potential: The electric field  $E$  due to extended charge distributions; Integral and differential expressions relating the electric potential  $V$  to the  $E$  field; Potential due to a dipole and other extended charge distributions. Gauss ' Law: Application to problems with spherical ...

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