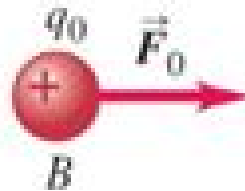
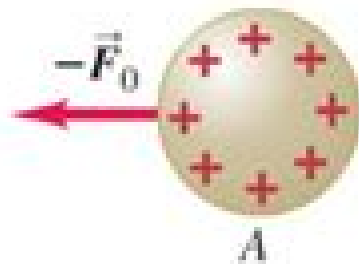


Electric field and forces

Let's reconsider Coulomb interaction



We know already

$$F_0 = \frac{1}{4\pi\epsilon_0} \frac{q_0 q_A}{r^2}$$

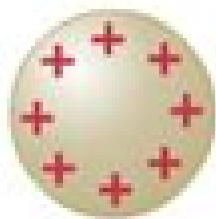
We ask:

How does particle B know that A is there to exert a force
and vice versa



Answer:

The presence of charge A alters the empty space and charge B experiences this alteration we call electric field



$$\underline{E} = \frac{\underline{F}_0}{q_0}$$

Point P

Exam Electric Force And Electric Field

SJ Ball



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architectural a multi view drawing can be difficult to understand