

Coulomb Law

Along came Marie Coulomb, summing up what he had learned from YYY about ZZZ, and bringing a new quantity charge into our picture.

He abstracted a law describing the force (of attraction) between two charged particles at distance r apart.

Coulomb Law of Attraction

$$F_k = K_e \cdot q \cdot Q / r^2$$

Symbol	Description	Unit
F_k	force between particles	MS / T^2
K_e	Coulomb constant	$MS^3 / T^2 Q^2$
q, Q	Charge on each particle	Q
r	distance between particles	S