

Electric field lines surrounding a point charge that suffered an acceleration during the interval PP' and then continued at uniform velocity. The electric field lines acquired a kink during this acceleration interval. The kink propagates outward, readjusting the electric field.

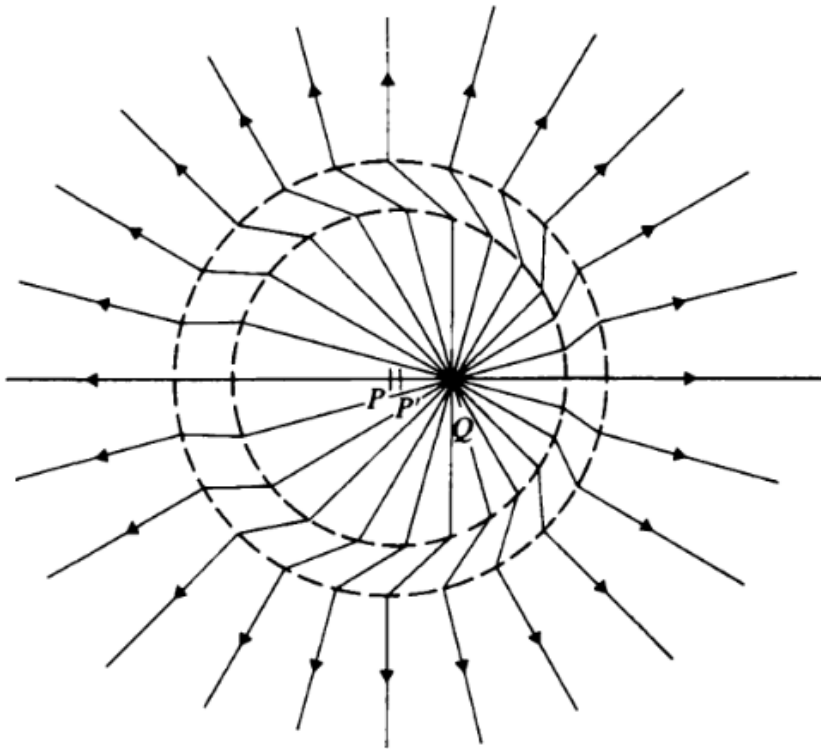


Figure 9.1. (a) Illustrating the configuration of the electric field lines at time t due to a charge accelerated by a velocity Δv in time Δt at time $t = 0$. (b) A diagram showing how to evaluate the azimuthal component of the electric field due to acceleration of the electron at the origin.

