

Figure 20.5: Electric field lines for a vertically oriented, time-harmonic point dipole located at the center of each panel. The indicated times are fractions of the oscillation period T . Field direction arrows are omitted for clarity.

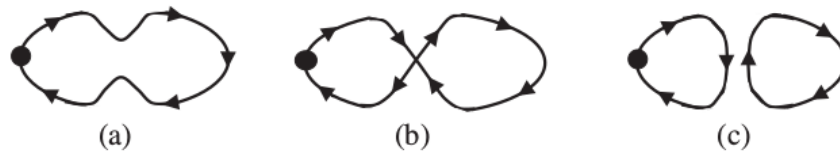


Figure 20.6: Schematic view of field line reconnection between $t = 0.158T$ and $t = 0.160T$ in Figure 20.5. Arrows indicate the direction of \mathbf{E} . (a) a dipole loop attached to its source (black dot) begins to pinch in; (b) $\mathbf{E} = 0$ at the point where the loop intersects itself; (c) field line reconnection creates a detached loop which propagates away from the source and a loop which remains connected to (and shrinks back toward) the source.

Gifs bonitos:

<http://www.didaktikonline.physik.uni-muenchen.de/programme/dipolstr/DipoleRadiation.html>