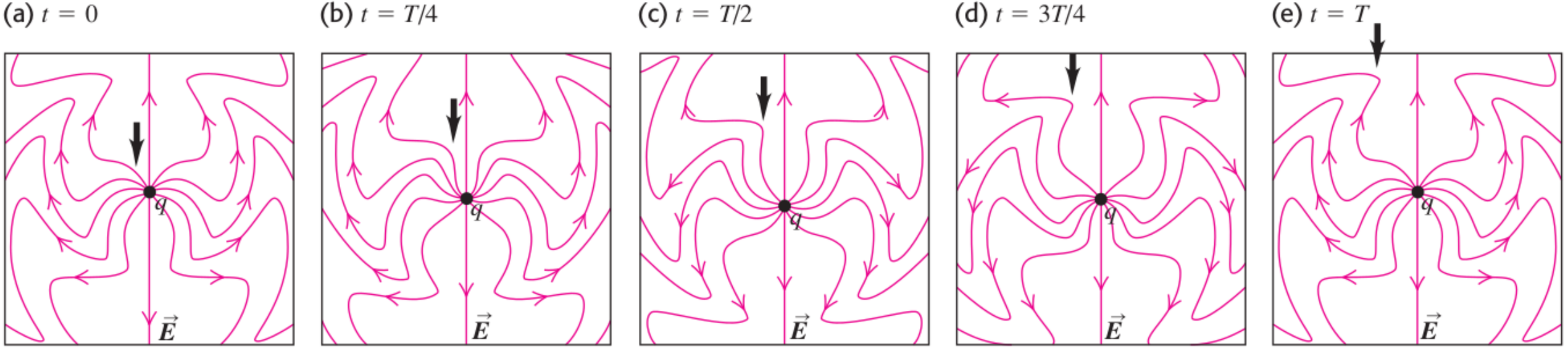
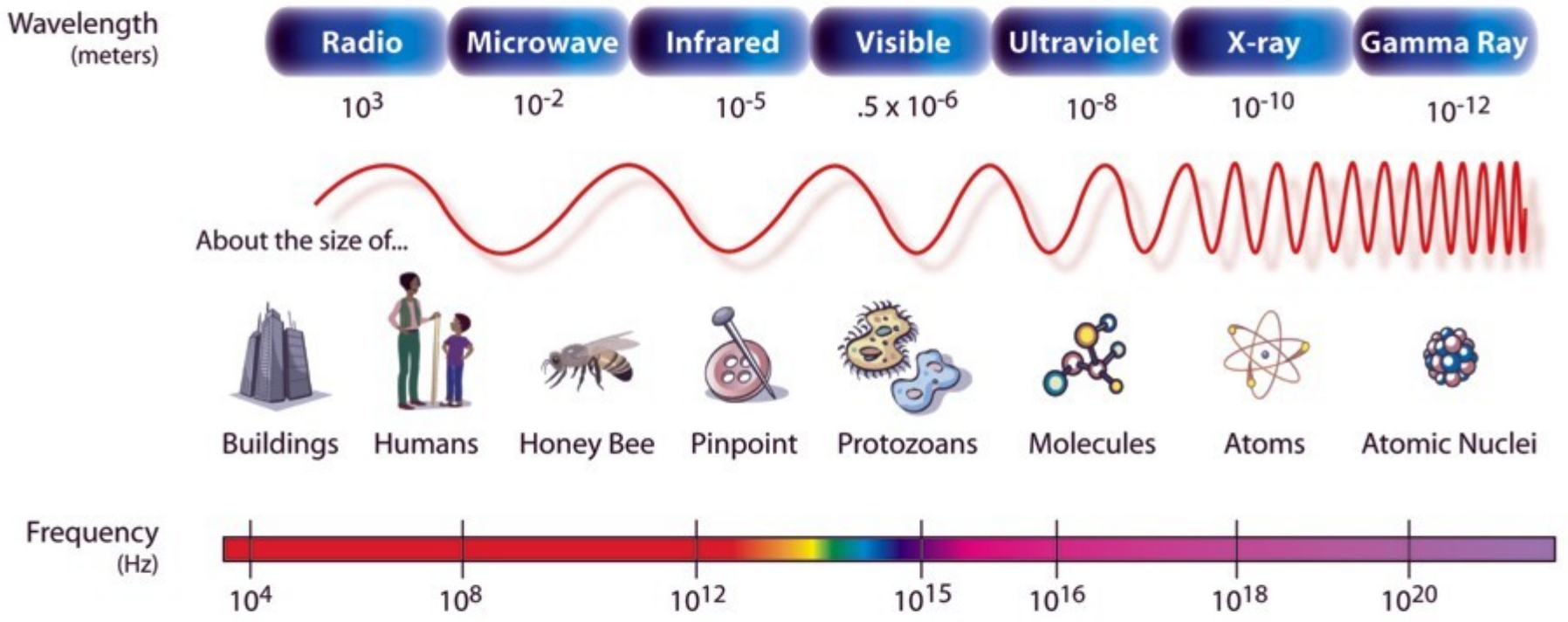
**32.3** Electric field lines of a point charge oscillating in simple harmonic motion, seen at five instants during an oscillation period $T$. The charge's trajectory is in the plane of the drawings. At $t = 0$ the point charge is at its maximum upward displacement. The arrow shows one "kink" in the lines of $\vec{E}$ as it propagates outward from the point charge. The magnetic field (not shown) comprises circles that lie in planes perpendicular to these figures and concentric with the axis of oscillation.



# Electromagnetic Spectrum




http://mynasadata.larc.nasa.gov/