

Figure 6.1 Helical motion of a particle in a uniform magnetic field.

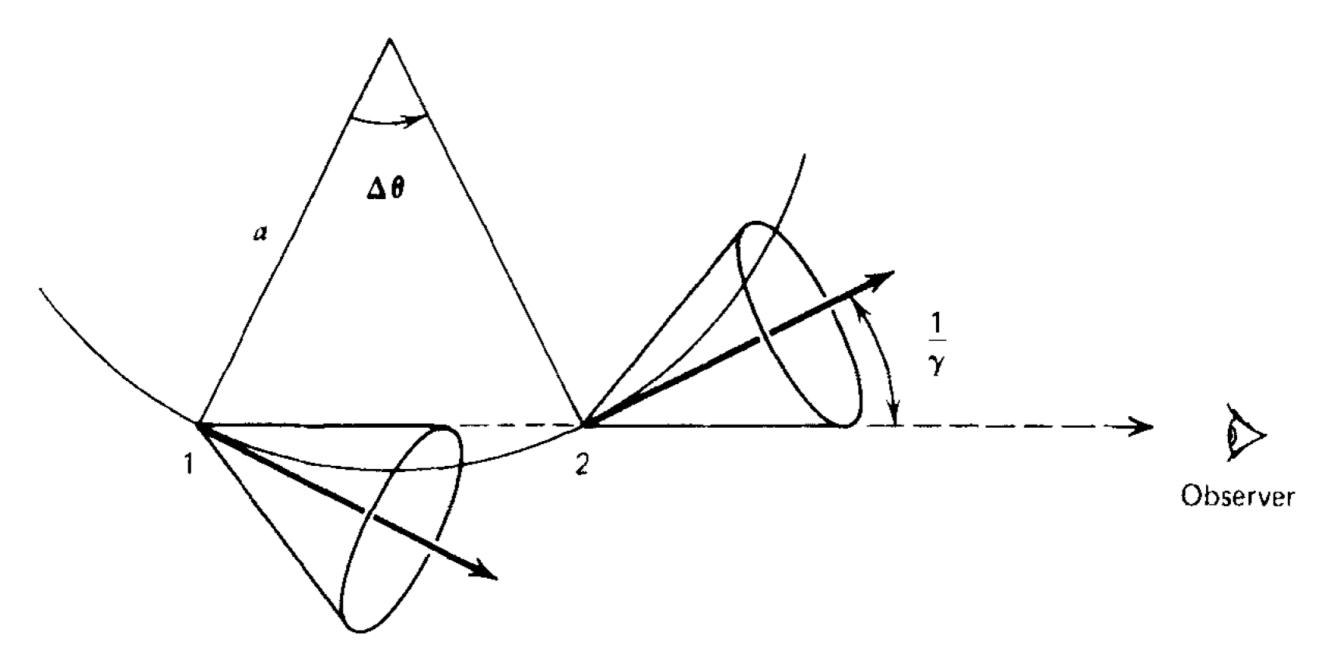


Figure 6.2 Emission cones at various points of an accelerated particle's trajectory.

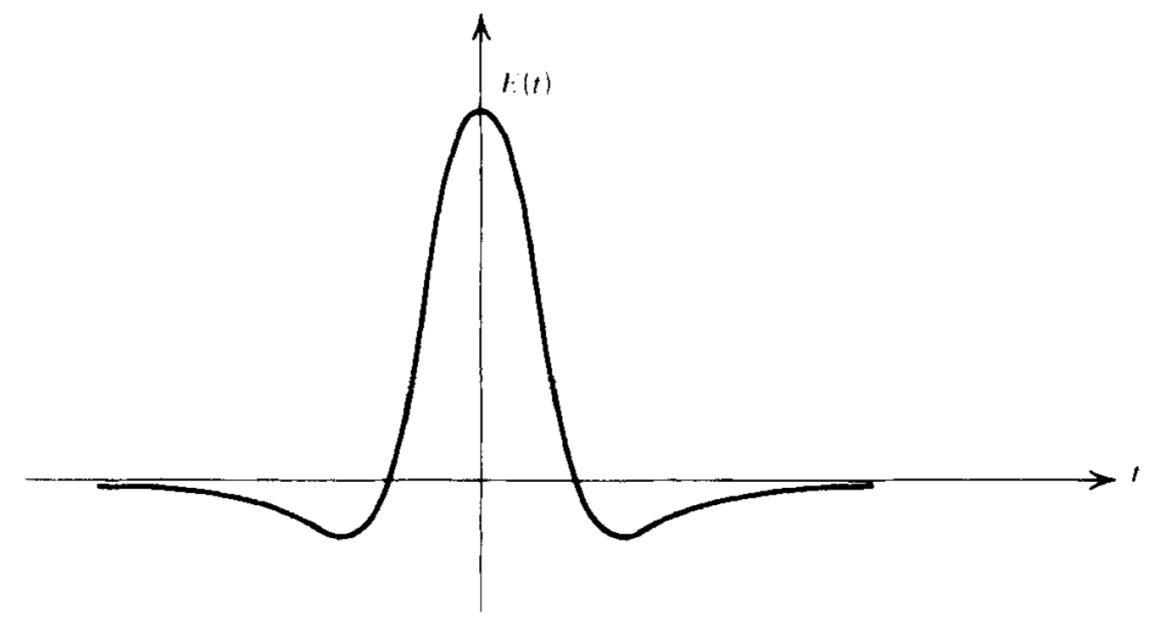


Figure 6.3 Time-dependence of the electric field in a pulse of synchrotron radiation.

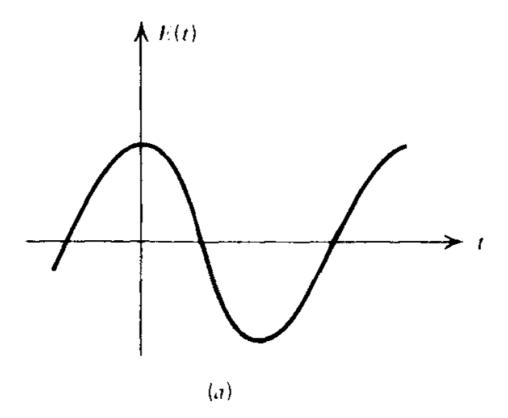


Figure 6.8a Time dependence of electric field from slowly moving particle in a magnetic field (cyclotron radiation).

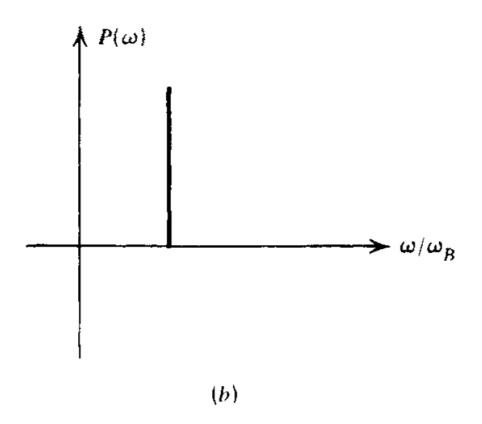


Figure 6.8b Power spectrum for a.

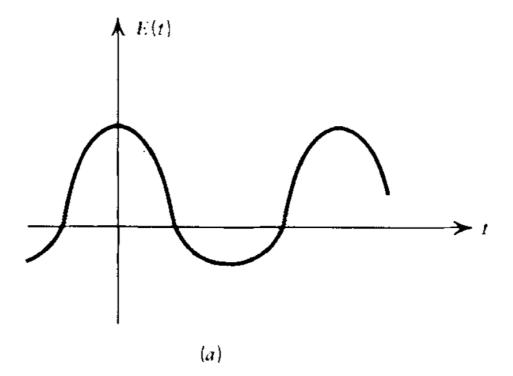


Figure 6.9a Time dependence of electric field from a particle of intermediate velocity in a magnetic field.

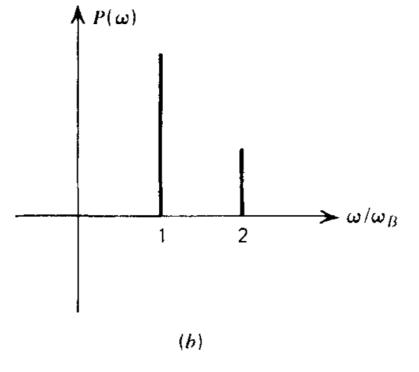


Figure 6.9b Power spectrum for a.

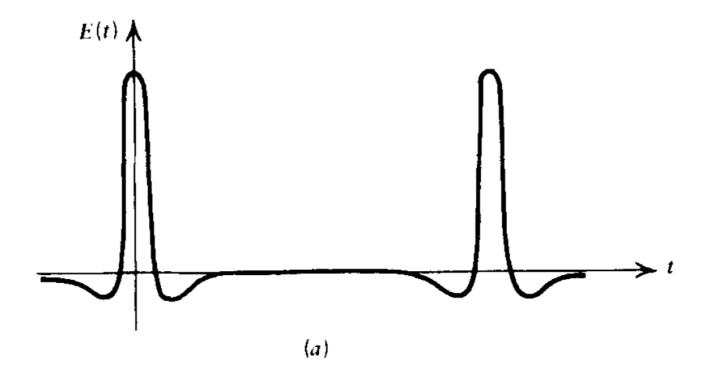


Figure 6.10a Time dependence of electric field from a rapidly moving particle in a magnetic field (synchrotron radiation).

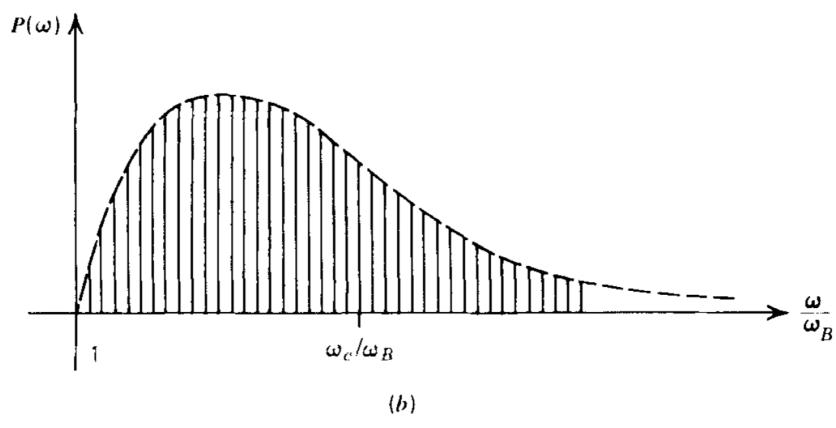


Figure 6.10b Power spectrum for a.

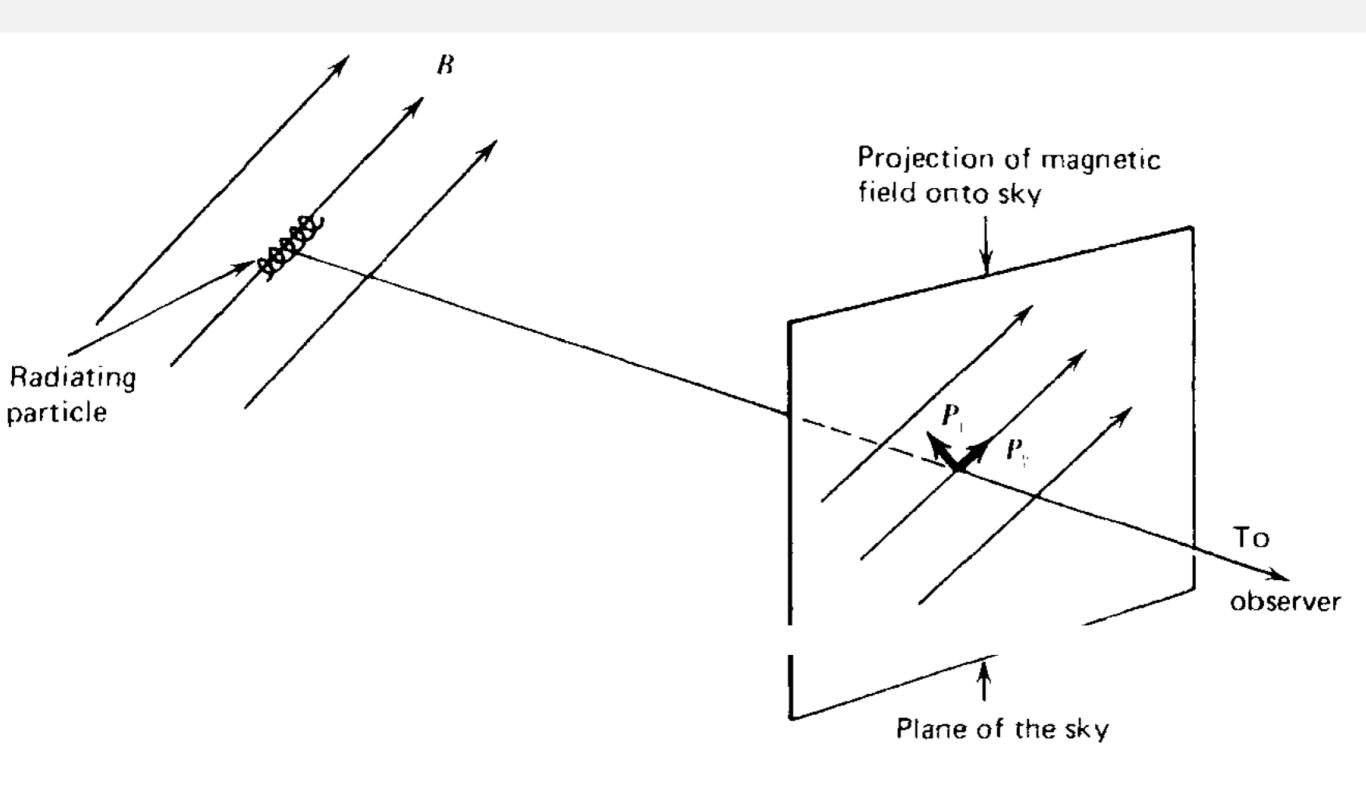


Figure 6.7 Decomposition of synchrotron polarization vectors on the plane of the sky.

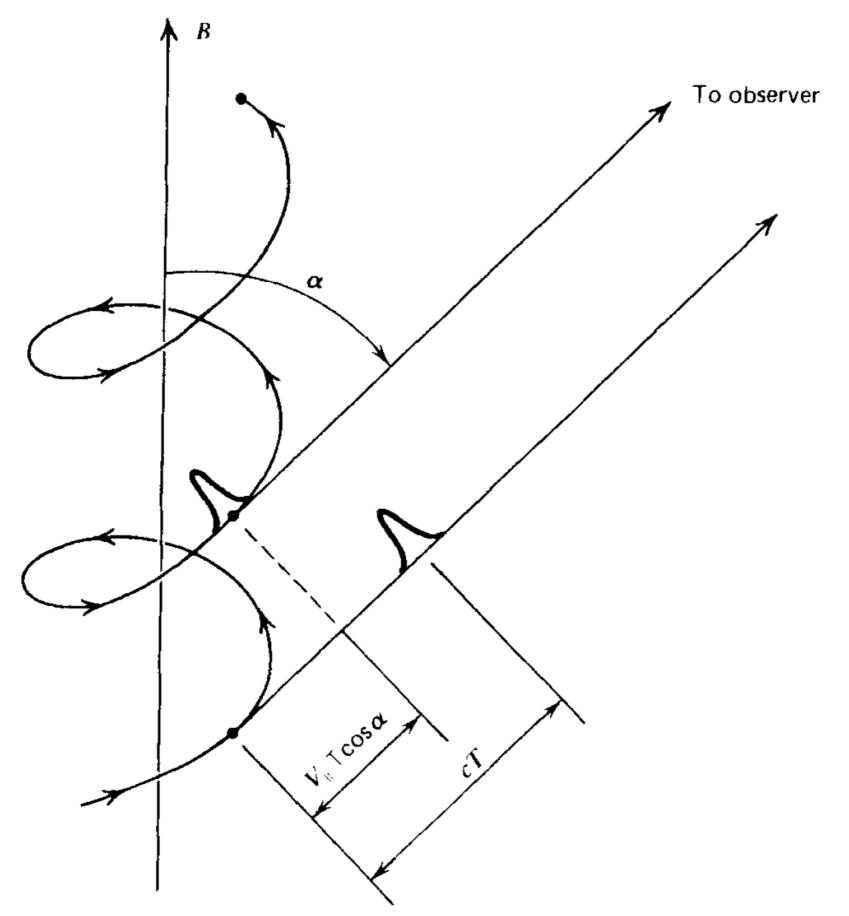


Figure 6.11 Doppler shift of synchrotron radiation emitted by a particle moving toward the observer.

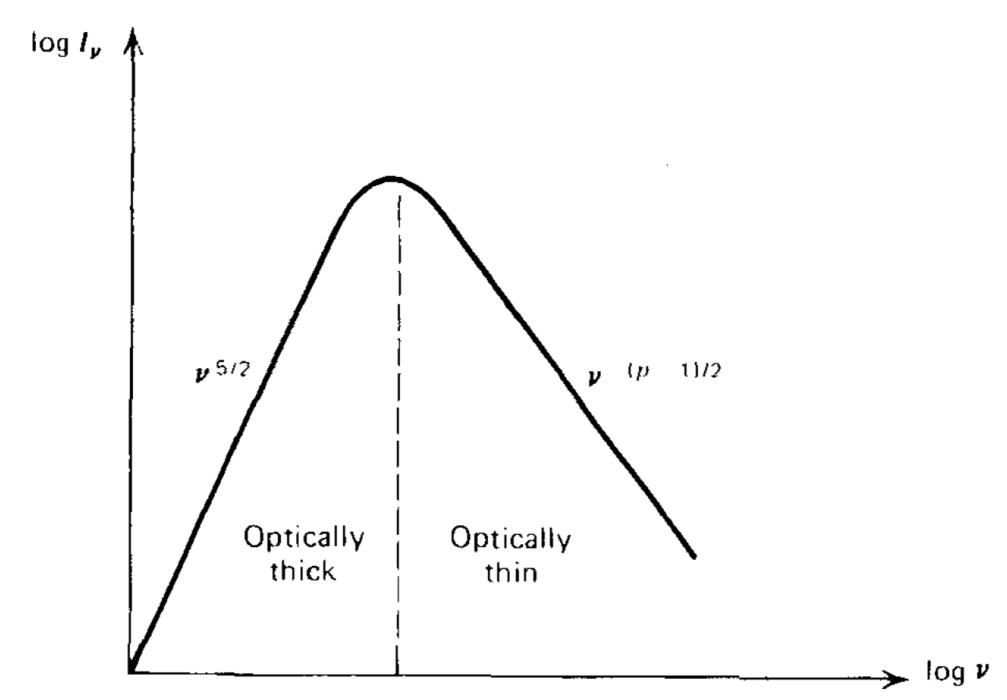


Figure 6.12 Synchrotron spectrum from a power-law distribution of electrons.