Intro:

Once we finish discussing relativistic transformations, induction will be our delight.

Due Thursday, 11 PM

Reading:

- PM Chapter 7, sections 1 - 5

A look ahead:

- PM Chapter 7 sections 6 - 11

Problems:

(1) 6.31
(2) 6.38
(3) 6.42 Is your answer unique?
(4) 6.50
(5) 6.51
(6) 6.55 The famous Helmholtz coils, examples of which lie in Gordon’s lab.
(7) 6.62 The current experiment that Gordon and Brian work on, aCORN, requires a uniform field to a par in $10^5$.
(8) 6.66
(9) (2 pts.)
   (a) Summarize the Hall effect as discussed in section 6.9/ Be sure to include a sketch.
   (b) 6.73
   (c) If you saw the following plot of transverse resistivity vs. $B$ (top curve) and longitudinal resistivity vs. $B$ (bottom curve) in a Hall experiment what might you conclude? To relate the coordinates in our book to this plot, use $x^- > z, y^- > x, z^- > y$. 