

Oberlin College Physics 111, Spring 2024

Assignment 7

Monday, 18 March

Reading: By Friday, read LSM chapter 13 (“Electromagnetic Induction”) and chapter 14 (“Inductance”). There is a lot of detail here. The central sections are 13.1 through 13.4, and 14.2. Read the rest in greater or lesser detail depending upon your personal interest.

Laboratory: “Using an Oscilloscope”.

Spring break advice: Rest, relax, unwind, don’t think about physics or any other course. Then come back refreshed and excited to work on . . .

Problems: Due Wednesday, 3 April.

- 53: *The essence of induced electric field*
- 56: *Alternating current generator*
- 57: *Primitive motor revisited*

I also suggest you work problems 50, 51, and 52 to get practice in applying Lenz’s law, but just do them in your head, don’t write down the answers.