

Physics 158 Circuits Homework 1

Aim for this homework is to cover the following topics:

- Introductory resistor circuits problems that can be used as a review for students who have not seen them in high school (aim for 1 problem)
- Analyzing circuits with capacitors, inductors, and switches in initial states and after long periods of time (aim for 2-3 problems)
- Analyzing RC and RL circuits and time constants (aim for 2-3 problems)

Review topics/guides to include:

- Can include a document and optional MP homework assignment that introduces students to the concept of circuits if they haven't seen them before

Thoughts and ideas:

- Could do a coding question for an RLC circuit using python

Problem 1