

Physics 213

General Physics

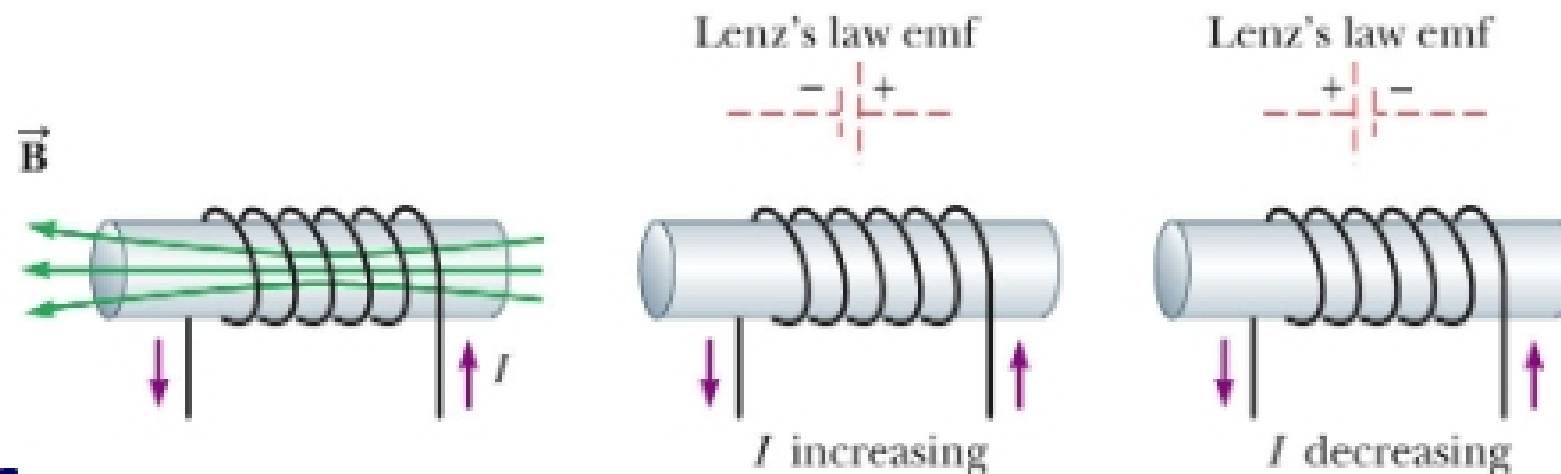
Lecture 13



Last Meeting: Self Inductance and
RL Circuits

Today: Finish RL Circuits, Energy
Stored, Electric Generators, and
Alternating Current

Inductor in a Circuit



- Inductance can be interpreted as a measure of opposition to the rate of change in the current
 - Remember resistance R is a measure of opposition to the current
- As a circuit is completed, the current begins to increase, but the inductor produces an emf that opposes the increasing current
 - Therefore, the current doesn't change from 0 to its maximum instantaneously