

## ECE3204 Lecture 2

### Review:

- KVL/KCL
- Nodal Analysis
- Superposition
- Thevenin

### Transducers

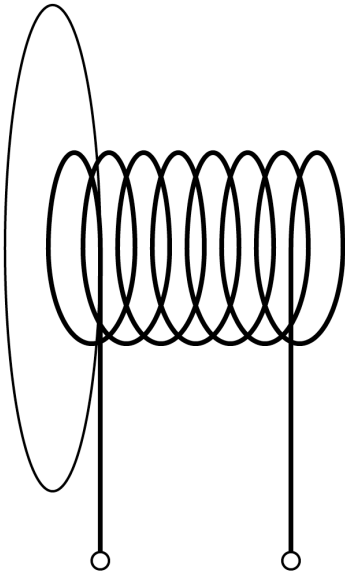
### Why Amplify?

### Ideal Op-Amp

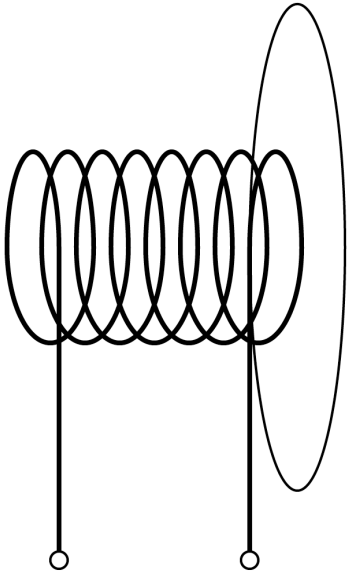
ECE3204: Transducers

MICROPHONE

Equivalent Circuit Model:



SPEAKER



Equivalent Circuit Model:

ECE3204: Transducers

PHOTODIODE

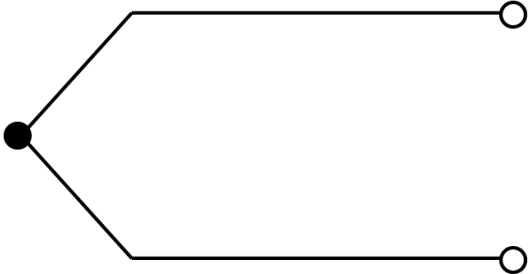
Equivalent Circuit Model:



ECE3204: Transducers

THERMOCOUPLE

Equivalent Circuit Model:



# GENERAL AMPLIFIER MODEL

