



ECT 459

Lecture 2

Sensor Fundamentals

Primary Measurands

1. Electromagnetic radiation

2. Flow

3. Force (pressure)

4. Light

5. Motion

6. Particle radiation

7. Position

8. Potential difference

9. Sound

10. Temperature

Sensing Types

1. Capacitive
2. Electromagnetic
3. Inductive
4. Magnetostrictive
5. Photoconductive
6. Photovoltaic
7. Piezoelectric
8. Potentiometric
9. Reluctive
10. Resistive
11. Strain gage
12. Thermoelectric