

# Basic Control Engineering

## Fundamentals of Automatic Control

**Auto 1: week 2 day 1**

**Objectives:**

### **2. Various Automatic Controls**

2.1 classify systematically automatic control in terms of control methodologies

2.2 state what an optimal control means

2.3 explain briefly feedback control and feed-forward control

1

# Basic Control Engineering

## Fundamentals of Automatic Control



Classification of automatic control in terms of control methodologies

**Feedback**

- What is feedback?
- Information that tells you how you're doing
- Automatic controller uses feedback
  - Difference between the Process Variable and the Set point (the error) tells the controller how well it's doing.
  - The less the error, the better the performance
- Open loop control does not use feedback
  - Example: timed lawn sprinkler system
    - Even if it rains, the sprinkler turns on because it has no feedback that

# Fundamentals Of Automatic Control

**Jiyuan Zhang**



## **Fundamentals Of Automatic Control:**

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