# Chapter 6 Analysis of Feedback Control Systems

Prof. Shi-Shang Jang Chemical Engineering Department National Tsing-Hua University Hsin Chu, Taiwan June, 2015

### 6-1 Introduction

- Given a plant with a transfer function of y(s)/m(s)=G<sub>p</sub>(s), a controller is implemented with a transfer function of G<sub>c</sub>(s), the system hence becomes a closed loop function.
- It is very convenient to analyze the closed loop system in s-domain since only algebraic equations are involved.
- In a closed loop system, there are two inputs for the system, the set point (servo) of the output

## **Analysis Of Feedback Control Systems**

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