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Feedback Control of Dynamic Systems by G F Franklin, J D Powell, & A Emami-Naeini □□□□ B C of a wider class of feedback systems, such as the one shown below H

#### Feedback Control of Dynamic Systems 7th Edition Franklin ...

2004 CHAPTER 2 DYNAMIC MODELS Then the forces are summed on each mass, resulting in  $m_1 \ddot{x}_1 = k_1 x_1 - k_2(x_1 - x_2) - b_1(\dot{x}_1 - \dot{x}_2)$   $m_2 \ddot{x}_2 = k_2(x_1 - x_2) + b_1(\dot{x}_1 - \dot{x}_2) - k_1 x_2$  The relative motion between  $x_1$  and  $x_2$  will decay to zero due to the damper However, the two masses will continue oscillating together without decay since there is no

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1006CHAPTER 1 AN OVERVIEW AND BRIEF HISTORY OF FEEDBACK CONTROL This is the simplest possible system Modern cases include computer control as described in later chapters

### **eedback: static and dynamic Lecture 13**

(dynamic analysis of feedback is very important — we'll do it later) suppose forward and feedback systems are linear, ie, A and F are numbers ('gains') eliminate e from  $y = Ae$ ,  $e = u - Fy$  to get  $y = Gu$  where  $G = A / (1 + AF)$  is called the closed-loop system gain (A is called open-loop system gain)  $L = AF$  is called the loop gain

### **8. FEEDBACK CONTROL SYSTEMS**

feedback control - 85 Figure 85 Example control rules In following sections we will examine mathematical control functions that are easy to implement in actual control systems 831 PID Control Systems The Proportional Integral Derivative (PID) control function shown in Figure 86 is the most popular choice in industry

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INTRODUCTION TO FEEDBACK CONTROL SYSTEMS 2 1 INTRODUCTION TO FEEDBACK CONTROL SYSTEMS 5 11 Objectives of feedback control 6 12 Need for feedback 7 13 Control system technology: actuators, sensors, controllers 8 14 Some applications 8 141 Water level regulator for a toilet tank 8 142 Single-link robot 9 143 Air pressure control in a

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- Feedback Control of Dynamic Systems, Fourth Edition, Franklin, Powell, Emami-Naeini, Prentice Hall, 2002
- Need to have feedback control that keeps the missile close to the nominal trajectory (guidance and flight control system)

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The book also contributes to the emerging control theory of hybrid systems Models of legged machines are fundamentally hybrid in nature, with phases DRAFT -- May 15, 2007 -- DRAFT -- May 15, 2007 -- DR Feedback Control of Dynamic Bipedal Robot Locomotion and, ()

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from the field of “classical control” This includes the transfer function, introduced in Chapter 8, which is a fundamental tool for understanding feedback systems Using transfer functions, one can begin to analyze the stability of feedback systems using frequency domain analysis, including the ability to reason about the closed

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