# Chapter 11 Feedback And Pid Control Theory I Introduction

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Chapter 11: Feedback and PID Control Theory - 2 - C. Feedback in physics Feedback has become a familiar tool for experimental physicists to improve the stability of their instruments. In particular, physicists use feedback for precise control of temperature, for stabilizing and cooling particle beams in accelerators, for improving the

**Chapter 11: Feedback and PID Control Theory**

Chapter 11: Feedback and PID Control Theory - 97 - where g P, g I, and g D are respectively the proportional, integral, and derivative gains. We also note that g P, g I, and g D do not have the same units. We will assume for simplicity that g P is dimensionless in which case u(e) has the same units as S.

**Chapter 11: Feedback and PID Control Theory I. Introduction**

In Chapter 11 of Control Loop Foundation – Batch and Continuous Processes we address PID feedback control. The feedback control workshop for this chapter is designed to allow you to explore and become more familiar with many of the concepts introduced in this chapter on PID feedback control.

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11.1 A Basic Feedback Loop. In the previous chapter, we considered the use of PID feedback as a mecha- nism for designing a feedback controller for a given process. In this

chapter we will expand our approach to include a richer repertoire of tools for shap- ing the frequency response of the closed loop system.

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Consider a unity feedback system with the plant G p (s) and the controller G c (s). PID control action is applied to the plant The PID controller has the transfer function Use the values T I = 0.2 and T D = 0.5.

**Solved: Consider a unity feedback system with the plant Gp ...**
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11.1 Sensitivity Functions In the previous chapter, we considered the use of proportional-integral-derivative (PID) feedback as a mechanism for designing a feedback controller for a given process. In this chapter we will expand our approach to include a richer repertoire of tools for shaping the frequency response of the closed loop system.

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