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1. Introduction - Process Control

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Lecture-01-Introduction to Process Control

Direct and Indirect Acting Valve : Process  
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Study of control system dynamics Observe  
the time response of a process output in  
response to input changes Focus on specific  
inputs 1. Step input signals 2. Ramp input

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signals 3. Pulse and impulse signals 4.

Sinusoidal signals 5. Random (noisy) signals

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engineering discipline that deals with the mechanism, architectures, and algorithms for controlling a process. Some examples of controlled processes are:

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~~Chapter 1 Lecture ...~~

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Process control. is the study and application of automatic control in the field of chemical engineering. The primary objective of process control is to maintain a process at the desired operating conditions, safely and efficiently, while satisfying environmental

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and product quality requirements. Proper application of process control can actually improve the safety and profitability of a process.

~~A Short Introduction to Process Dynamics  
and Control~~

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This course uses an open textbook  
University of Michigan Chemical  
Engineering Process Dynamics and  
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(wikibook) are all written by teams of 3-4  
senior chemical engineering students, and



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are peer-reviewed by other members of the class. Using this approach, the faculty and Graduate Student Instructors (GSIs) teaching the course act as managing editors, selecting broad threads for the text and suggesting references.

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This course introduces dynamic processes and the engineering tasks of process operations and control. Subject covers modeling the static and dynamic behavior of processes; control strategies; design of feedback, feedforward, and other control structures; and applications to process equipment.

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Process controls are instruments used to  
control a parameter, such as temperature,

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level, and pressure. PID controllers are a type of continuous controller because they continually adjust the output vs. an on/off controller, when looking at feed forward or feed backward conditions. An example of a temperature controller is shown in Figure 1.

~~9.2: P, I, D, PI, PD, and PID control~~

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Calendar Description: The dynamic behaviour and automatic control of processes are studied. Mathematical tools for analyzing the transient behaviour of open and closed-loop systems are presented. The steps of controller development are treated: process

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characterization (using mathematical models), controller design, and implementation.

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## Process Dynamics And

Process Dynamics, Modeling, and Control  
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Hardcover – 2 Feb. 1995 by Babatunde

Ogunnaike (Author), W. Harmon Ray

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Objectives: The main objective of this course is to teach the fundamental aspects of process dynamics and control, which includes developing dynamic models of processes, control strategies for linear time-invariant systems and instrumentation aspects. At the end of this

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course, the student would be able to: (i) develop transfer function (input-output) and state-space models for linear dynamical processes, (ii) characterize the dynamics and stability of processes based on mathematical analysis ...

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& refining, chemical process, power, food & beverage, pharmaceutical and water & wastewater industries.

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