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Mod-01 Lec-03 Lecture-03-Mathematical Modeling (Contd...1) - Mod-01 Lec-03 Lecture-03-Mathematical Modeling (Contd...1) by nptelhrd 152,276 views 11 years ago 55 minutes - Process Control, and Instrumentation by Prof.A.K.Jana, prof.D.Sarkar Department of Chemical Engineering, IIT Kharagpur. For more ...
Overall Mass Balance
Conservation of Mass
Arrhenius Equation
Energy Balance Equation
Modeling Equations
Input Variables
Output Variables
Output Variables

Manipulated Variables

Assumptions

Exemptions

Total Mass Balance Equation

Energy Balance

Degrees of Freedom Analysis

Simulink Process Control Exercise - Simulink Process Control Exercise by APMonitor.com 34,027 views 10 years ago 35 minutes - A simulated dual gravity drained tank is used to generate data for (1) a graphical fit to a first order plus dead time (FOPDT) model ...

Two Tank Simulink

Generate a Step Response

Tracer Tool

Time Constant

Dead Time

Dead Time Time Constant

Set Point

The Excel Solver

Excel Solver

Graphical Method

Add a Pid Controller

Pid Controller

Pi Controller

Second-Order Underdamped Transfer Functions - Second-Order Underdamped Transfer Functions by LearnChemE 43,107 views 8 years ago 7 minutes, 11 seconds - Organized by textbook: <https://learncheme.com/> Describes second-order underdamped transfer functions and how they respond ...

Transfer Function for a Generic Second Order Transfer Function

Graph the Relationship for the Output Response

Rise Time

Decay Ratio

Overshoot

Settling Time

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Introduction

Console

Commands

Creating a Function

Linspace

Labels

Functions

Position

Subplot

For Loop

Plancks Law

Comments

Graph Elements

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Mod-01 Lec-01 Lecture-01-Introduction to Process Control - Mod-01 Lec-01 Lecture-01-Introduction to Process Control by nptelhrd 303,634 views 11 years ago 54 minutes - Process Control, and

Instrumentation by Prof.A.K.Jana,prof.D.Sarkar Department of Chemical Engineering,IIT Kharagpur.

For more ...

Production Specifications

Environmental Requirements

Operational Constraints

Economics

Basic Aim of a Controller

Tank Heating System

Start Up Procedure of a Process

Stability of a Chemical Process

Self-Regulating Process

Main Operational Objectives

A Continuous Stirred-Tank Reactor

Economic Objective

Classification of Variables

Liquid Tank System

Control Configuration

Distillation Column

Control Objective of this Process

The Control Configuration

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Intro

Cheese

Process Control

Control Systems

Integrated Approach

Calculating Fourier Coefficients using SCILAB [TUTORIAL] - Calculating Fourier Coefficients using SCILAB [TUTORIAL] by Phys Whiz 24,595 views 7 years ago 13 minutes, 52 seconds - Who am I? Hi! I am Manas Sharma. A student of Physics. Follow me on: Facebook: <http://www.facebook.com/brag-itoff> Twitter: ...

Blending Process: Dynamic Modeling - Blending Process: Dynamic Modeling by LearnChemE 27,179 views 6 years ago 7 minutes, 19 seconds - Organized by textbook: <https://learncheme.com/> Builds a **dynamic**, model of the blending **process**, using mass balances. This case ...

build a dynamic model based on balance equations

construct a mass balance

final equation for dx/dt

CHENG324 Lecture20 Chapter 5 Solving Problems 5.2,5.3,5.4,5.5 - CHENG324 Lecture20 Chapter 5 Solving Problems 5.2,5.3,5.4,5.5 by Bassam Alhamad 1,253 views 3 years ago 1 hour, 7 minutes - Solving Problems Chapter 5 Text Book: **Process Dynamics**, and **Control**,, 2nd Edition: Chapter 5 by Authors: Dale **Seborg**,, Thomas ...

Relationship between Temperature and Power

Maximum Rate of Change of the Process Temperature

Four the Dynamic Response of a Stirred Tank by Reactor Can Be Represented by the Transfer Function

Rectangular Pulse

The Maximum Value That the Concentration Will Achieve due to this Pulse Change

Transfer Function Model for the Thermocouple

Derive the Transfer Function Model

Two Step Inputs

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Solving Transfer Functions

Graphical Method for First Order Systems

Graphical Method for Second Order Systems

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Overview of the Course

Process Dynamics

Exercises and Examples

Knowledge Checks

Temperature Control Lab

Other Knowledge Checks

Matlab

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