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quick revision purpose**

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*Chapter 7 Introduction to
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LeDoux - The Origins Podcast

*with Lawrence Krauss Process
Models In Control Systems*

Tuning A Control Loop - The

*Knowledge Board Applications
of System Dynamics - Jay W.*

Forrester Steady State Model

and Dynamic Model - Lecture

1-Process Dynamics and

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Control linearisation of

nonlinear system

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first order liquid level

*process *Ramp Input Function**

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Fundamentals of Process

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Tutorial Week 3 - Process

Dynamics and Control 12

Steps to Create a Dynamic

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dynamics and control gate

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The balance equation
1. Mass Balance
2. Energy Balance
3. Momentum Balance (Newton's Law)
Rate of Accumulation of fundamental quantity
Flow In
Flow Out
Rate of

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Process Modeling For control applications: Modeling objectives is to describe process dynamics based on the laws of conservation of mass, energy and momentum
The balance equation
1. Mass Balance
2. Energy Balance
3. Momentum Balance (Newton's Law)
Rate of Accumulation of fundamental quantity
Flow In
Flow Out
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systems so that we can
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more easily controlled
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