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Introduction To Control Theory 2nd

Introduction to Control Theory Harald Paulitsch 2. Classification of Control Systems. • Open-loop control systems – control value only depends on input signal control value only depends on input signal • Closed-loop control systems – with feedback loop \Rightarrow all called “feedback control systems”.

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Control Systems can be classified as open loop control systems and closed loop control systems based on the feedback path. In open loop control systems, output is not fed-back to the input. So, the control action is independent of the desired output. The following figure shows the block diagram of the open loop control system.

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IntroDuction to Soclological theory

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The important properties of first-, second-, and higher-order systems will be reviewed in this section. First-Order Systems. First-order systems are the simplest dynamic systems to analyze. Some common examples include mass-damper systems and RC circuits. The general form of the first-order differential equation is as follows (1)

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