# Instrumentation And Control Tutorial 1 Basic Engineering

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INSTRUMENTATION AND CONTROL TUTORIAL 1 – BASIC ENGINEERING

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INSTRUMENTATION AND CONTROL. TUTORIAL 1 – CREATING MODELS OF ENGINEERING SYSTEMS. This tutorial is of interest to any student studying control systems and in particular the EC module D227 – Control System Engineering. The purpose of this tutorial is to introduce students to the basic elements of engineering systems and how to create a transfer function for them.

INSTRUMENTATION AND CONTROL TUTORIAL 1 – CREATING MODELS ... INSTRUMENTATION AND CONTROL TUTORIAL 1 – BASIC ENGINEERING ... 1. Instrumentation and Control (I&C) personnel must demonstrate a familiarity level knowledge of basic electrical engineering fundamentals. D.J.DUNN 1 INSTRUMENTATION AND CONTROL TUTORIAL 4 ??" SYSTEM RESPONSE Page 5/12

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Instrumentation And Control Tutorial 1 1. A simple closed loop system consists of two amplifiers in series one with a gain of 3 and one with a gain of 2. For an input of 6 mA, determine the output when a disturbance added to the output of magnitude i) 0 and ii) 3. 2. The forward path transfer function for a controlled system is G1(s) = 2/(3s2+1)

### INSTRUMENTATION AND CONTROL TUTORIAL 3 – TRANSFER FUNCTION

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1. A potentiometer produces 50 mV per degree of rotation of its shaft. Calculate the angle when the output is 4 V. (Answer 80o) 2. A turbine flow meter coupled to an electric voltage generator produces 4 mV for each litre/s flowing. Calculate the output when 1 V is produced. (Answer Page 9/12

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