

## Instrumentation And Control Tutorial 1 Basic Engineering

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1 Introduction - Process Control Instrumentation - Instrumentation and control training course part - 1  
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INSTRUMENTATION AND CONTROL TUTORIAL 1 - BASIC ENGINEERING ...  
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 ...  
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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  $G1(s) = \frac{2}{(3s^2 + 1)}$

INSTRUMENTATION AND CONTROL TUTORIAL 3 - TRANSFER FUNCTION ...  
1. A potentiometer produces 50 mV per degree of rotation of its shaft. Calculate the angle when the output is 4 V. (Answer 80\u00b0) 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 250 litres/s) 3.

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