

# **Instrumentation And Control Tutorial 1 Creating Models**

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## Instrumentation And Control Tutorial

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purpose of this tutorial is to introduce students to the  
basic elements of engineering systems and how to  
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the web site. It is useful to anyone studying measurement systems and instrumentation but it is provided mainly in support ... INSTRUMENTATION AND CONTROL TUTORIAL 1 – BASIC ... D.J.Dunn 1 INSTRUMENTATION AND CONTROL TUTORIAL 4 – INSTRUMENT SYSTEM MODELS AND CALIBRATION This tutorial is mainly about instrument systems and simple mathematical models. It brings together the various elements covered in tutorials 2 and 3. It leads into more advanced work on control system models. It is provided mainly in support of the EC INSTRUMENTATION AND CONTROL TUTORIAL 4 – INSTRUMENT SYSTEM ... 1. INTRODUCTION A basic instrument system consists of a sensor (tutorial 2), a

processor and a receiver. This tutorial is about the processor and the receiver. The technology used in signal processing is also important for automatic control systems. Figure 1 2. SIGNAL PROCESSING AND CONDITIONING You should now be familiar with transducers and sensors. INSTRUMENTATION AND CONTROL TUTORIAL 3 - SIGNAL PROCESSORS ... 1. A thermocouple produces an e.m.f. in mV according to the temperature difference between the sensor tip  $\theta_1$  and the gauge head  $\theta_2$  such that  $e = \alpha(\theta_1 - \theta_2) + \beta(\theta_1^2 - \theta_2^2)$  Given  $\alpha = 3.5 \times 10^{-2}$  and  $\beta = 8.2 \times 10^{-6}$  determine the mV output when the tip is at  $220^\circ\text{C}$  and the gauge head at  $20^\circ\text{C}$ . (Answer 7.394 mV)

2. INSTRUMENTATION AND CONTROL TUTORIAL 2 -

SENSORS AND ... 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

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