

INSTRUMENTATION AND CONTROL

TUTORIAL 1 – BASIC ENGINEERING SCIENCE

This tutorial provides minimal engineering science necessary to complete the rest of the tutorials. Greater depth of the individual topics can be found on the web site. It is useful to anyone studying measurement systems and instrumentation but it is provided mainly in support of the EC module D227 – Control System Engineering. This tutorial is very basic.

On completion of this tutorial, you should be able to explain and use the following basic relationships used in mechanical and electrical engineering science.

- Basic units.
- Displacement, velocity and acceleration.
- Newton's Second Law of Motion.
- Springs.
- Pressure and flow.
- Resistance, current, capacitance and inductance.
- Stress and strain.
- Resistivity and temperature coefficient of resistance.

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