

Chapter 2. Basic Concepts

2.1 Introduction

In this chapter we seek to explain some of the terminology used in experimental methods and to show the generalized arrangement of an experimental system. We shall also discuss briefly the standards which are available and the importance of calibration in any experimental measurement. A major portion of the discussion on experimental errors is deferred until Chap. 3, and only the definition of certain terms is given here.

2.2 Definition of Terms

We are frequently concerned with the *readability* of an instrument. This term indicates the closeness with which the scale of the instrument may be read; an instrument with a 12-in scale would have a higher readability than an instrument with a 6-in scale and the same range. The *least count* is the smallest difference between two indications that can be detected on the instrument scale. Both readability and least count are dependent on scale length, spacing of graduations, size of pointer (or pen if a recorder is used), and parallax effects.

For an instrument with a digital readout the terms “readability” and “least count” have little meaning. Instead, one is concerned with the display of the particular instrument.

The *sensitivity* of an instrument is the ratio of the linear movement of the pointer on an analog instrument to the change in the measured variable causing this motion. For example, a 1-mV recorder might have a 25-cm scale length. Its sensitivity would be 25 cm/mV, assuming that the measurement was linear all across the scale. For a digital instrument readout the term “sensitivity” does not have the same meaning because different scale factors can be applied with the push of a button. However, the manufacturer will usually specify the sensitivity for a certain scale setting, for example, 100 nA on a 200- μ A scale range for current measurement.

Experimental Methods For Engineers 8th Solutions Manual

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