CHAPTER 2

# Questions and Solutions at End of Chapter 2

- 2.1 Describe active and passive, null type and deflection type, analog and digital, indicating and signal-output types. Explain differences between these. Give examples of each (See Section 2.2 in the book for full details).
- 2.2 Sample answer:
  - (a) Quantity being measured modulates the magnitude of some external power source.
  - (b) Instrument output is entirely produced by the quantity being measured.

Give examples (see Section 2.2 in the book).

Relative merits:

Active: better measurement resolution (but limited by heating effect due to power source and also by safety considerations—small voltage is necessary).

Passive: simpler construction, no power supply needed, and limited measurement resolution.

2.3 Null type is more accurate but tedious to use.

Deflection type is less accurate but easier to use.

Explain the difference by means of an example, e.g., null and deflection types of pressure gauge (See Section 2.2 in the book for full details).

Null type normally reserved for calibration duties where best accuracy is needed.

2.4 An analog instrument gives an output that varies continuously as the quantity being measured changes. The output can have an infinite number of values within the range that the instrument is designed to measure, but the number of different positions that the eye can discriminate between is strictly limited according to how large the scale is and how finely it is divided.

A digital instrument has an output that varies in discrete steps and so can only have a finite number of values.

Give examples of each.

Digital instrument is best for computer control systems since analog-to-digital (A/D) conversion is needed for an analog instrument. Explain problems with A/D conversion—cost and conversion time (see Section 2.2 in the book).

2.5 Static characteristics: These are their steady-state attributes (when the output measurement value has settled to a constant reading after any initial varying output)

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Methods of Seawater Analysis Klaus Grasshoff, Klaus Kremling, Manfred Ehrhardt, 2009-07-30 Since the book first appeared in 1976 Methods of Seawater Analysis has found widespread acceptance as a reliable and detailed source of information Its second extended and revised edition published in 1983 reflected the rapid pace of instrumental and methodological evolution in the preceding years The development has lost nothing of its momentum and many methods and procedures still suffering their teething troubles then have now matured into dependable tools for the analyst This is especially evident for trace and ultra trace analyses of organic and inorganic seawater constituents which have diversified considerably and now require more space for their description than before Methods to determine volatile halocarbons dimethyl sulphide photosynthetic pigments and natural radioactive tracers have been added as well as applications of X ray fluorescence spectroscopy and various electrochemical methods for trace metal analysis Another method not previously described deals with the determination of the partial pressure of carbon dioxide as part of standardised procedures to describe the marine CO2 system Clinical Chemistry Wendy L Arneson, Jean M Brickell, 2007-01-25 Meet the learning needs of today s students with a brand new style of textbook designed to excite your students interest in clinical chemistry Organized almost entirely around organ systems to parallel the way physicians order tests this groundbreaking text teaches the concepts and principles of clinical chemistry through realistic situations and scenarios By integrating pathophysiology biochemistry and analytical chemistry for each major system students clearly see the relevance of what they are learning to their future careers This practical approach encourages them how to apply theoretical principles in the laboratory and to develop important critical thinking skills Instrumentation, Measurement, Circuits and Systems Tianbiao Zhang, 2012-03-09 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Mechanical Engineering and Technology held on London UK November 24 25 2011 Mechanical engineering technology is the application of physical principles and current technological developments to the creation of useful machinery and operation design Technologies such as solid models may be used as the basis for finite element analysis FEA and or computational fluid dynamics CFD of the design Through the application of computer aided manufacturing CAM the models may also be used directly by software to create instructions for the manufacture of objects represented by the models through computer numerically controlled CNC machining or other automated processes without the need for intermediate drawings This volume covers the subject areas of mechanical engineering and technology and also covers interdisciplinary

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