

# Section 3.1

## Measurements and Their Uncertainty

- OBJECTIVES:
  - Determine the number of significant figures in a measurement and in a calculated answer.

# Section 3 1 Measurements And Their Uncertainty

## Answers

**Jiyuan Zhang**

### **Section 3 1 Measurements And Their Uncertainty Answers:**

*The Quality of Measurements* A.E. Fridman, 2011-11-23 This monograph and translation from the Russian describes in detail and comments on the fundamentals of metrology The basic concepts of metrology the principles of the International System of Units SI the theory of measurement uncertainty the new methodology of estimation of measurement accuracy on the basis of the uncertainty concept as well as the methods for processing measurement results and estimating their uncertainty are discussed from the modern position It is shown that the uncertainty concept is compatible with the classical theory of accuracy The theory of random uncertainties is supplemented with their most general description on the basis of generalized normal distribution the instrumental systematic errors are presented in connection with the methodology of normalization of the metrological characteristics of measuring instruments The information about modern systems of traceability is given All discussed theoretical principles and calculation methods are illustrated with examples

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**Proceedings Of The 29th International Conference On High Energy Physics: Icsep '98 (In 2 Volumes)** Alan Astbury,David A Axen,Jacob Robinson,1999-06-11 These proceedings consist of plenary rapporteur talks covering topics of major interest to the high energy physics community and parallel sessions papers which describe recent research results and future plans Physics Letters ,2000 Journal of Research of the National Bureau of Standards ,1979 **Engineering** ,1894 **Engineering News and American Contract Journal** ,1884 *Dimensional Metrology, Subject-classified with Abstracts Through 1964* ,1966 **Engineering News** ,1884

**SAE Aerospace Standards** ,1988 *Papers Presented at the ... Meeting American Chemical Society. Division of Polymer Chemistry*,2000 *IEEE Instrumentation and Measurement Technology Conference Proceedings* ,1991 **Solar Engineering** American Society of Mechanical Engineers. Solar Energy Division. Conference,1995 Proceedings ,1956

**Journal of Dynamic Systems, Measurement, and Control** ,1991 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality **National Bureau of Standards Miscellaneous Publication** ,1966 **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1979

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