

# **ME2304 ENGINEERING METROLOGY AND MEASUREMENTS**

**Metrology** is the science of measurement. Metrology includes all theoretical and practical aspects of measurement. Metrology is defined as "the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology."

## **OBJECTIVES**

- To understand the basic principles of measurements
- To learn the various linear and angular measuring equipments, their principle of operation and applications.
- To learn about various methods of measuring Mechanical parameters
- To gain some fundamental knowledge about metrology and measurements and Definition of internationally accepted unit of measurement.
- Realisation of the units of measurement in practice

## **TEXT BOOKS:**

1. Jain R.K., "Engineering Metrology", Khanna Publishers, 2005
2. Alan S. Morris, "The Essence of Measurement", Prentice Hall of India, 1997

## **REFERENCES**

1. Gupta S.C, "Engineering Metrology", Dhanpat rai Publications, 2005
2. Jayal A.K, "Instrumentation and Mechanical Measurements", Galgotia Publications 2000
3. Beckwith, Marangoni, Lienhard, "Mechanical Measurements", Pearson Education, 2006.
4. Donald Deckman, "Industrial Instrumentation", Wiley Eastern, 1985.

# Me2304 Engineering Metrology And Measurements Text

**Rachel Sandford**



## **Me2304 Engineering Metrology And Measurements Text :**

*Engineering Metrology and Measurements* N. V. Raghavendra, L. Krishnamurthy, 2013 Engineering Metrology and Measurements is a textbook designed for students of mechanical production and allied disciplines to facilitate learning of various shop floor measurement techniques and also understand the basics of mechanical measurements With a conventional introduction to the principles and standards of measurement the book in subsequent chapters takes the reader through the important topics of metrology such as limits fits and tolerances linear measurements angular measurements comparators optical measurements The last few chapters discuss the measurement concepts of simple physical parameters such as force torque strain temperature and pressure before introducing the contemporary information on nanometrology as the last chapter Adopting an illustrative approach to explain the concepts the book presents solved numerical problems practice problems review questions and multiple choice questions     Engineering Metrology and Measurements

Raghavendra, Krishnamurthy, 2013-05 Engineering Metrology and Measurements is a textbook designed for students of mechanical production and allied disciplines to facilitate learning of various shop floor measurement techniques and also understand the basics of mechanical measurements     **Engineering Metrology** Jain, 2007     Engineering Metrology

Geoffrey Gladstone Thomas, 1974     **Engineering Metrology** Ravindra K. Jain, 1993     **Metrology for Engineers** John Frederick Wise Galyer, Charles Reginald Shotbolt, 1990     Practical Engineering Metrology K. W. B. Sharp, 1966

*Practical Engineering Metrology* Kenneth William Beaumont Sharp, 1958     **Tests and Measurements** Commonwealth Scientific and Industrial Research Organization. National Standards Laboratory, Division of Applied Physics, 1968

Engineering Metrology Kenneth John Hume, 1970     *Tests and Measurements* National Standards Laboratory (Australia), 1961     *Principles of Engineering Metrology* Rega Rajendra, 2008 Knowledge of measurement and instrumentation is of increasing importance in industry Advances in automated manufacturing and requirement to conform to various standards have resulted in a large number of computerised and automated inspection techniques along with the classical metrology methods Manufacturers have to find new ways of ensuring that the quality of their products and processes remains the best in the global market The best way for the engineering sector to compete against industrialised nations is to focus on high quality value added engineering Principles of Engineering Metrology explains the salient features in dimensional metrology as per IS and ISO standards methods It explains in detail the applications of form position and orientation of various features with mathematical background and a good number of illustrations The book is targeted as a guide to practicing engineers in dimensional metrology and students of mechanical engineering and production engineering Dimensional metrology laboratories engaged in consultancy as well as machining shops and assembly units of mechanical components will also find this book useful It will also be suitable to machine tool shops for preliminary studies     Metrology for Engineers J.F.W. Galyer, C.R. Shotbold, 1969     **Tests and Measurements** Commonwealth Scientific and Industrial

Research Organization (Australia). Division of Applied Physics, 1968      *Advances in Metrology and Measurement of Engineering Surfaces* Chander Prakash, Grzegorz Krolczyk, Sunpreet Singh, Alokesh Pramanik, 2021-06-16 This book presents the select proceedings of the International Conference on Functional Material Manufacturing and Performances ICFMMP 2019 The book covers broad aspects of several topics involved in the metrology and measurement of engineering surfaces and their implementation in automotive bio manufacturing chemicals electronics energy construction materials and other engineering applications The contents focus on cutting edge instruments methods and standards in the field of metrology and mechanical properties of advanced materials Given the scope of the topics this book can be useful for students researchers and professionals interested in the measurement of surfaces and the applications thereof      **Metrology and Instrumentation** Samir Mekid, 2021-12-29 Metrology and Instrumentation Practical Applications for Engineering and Manufacturing provides students and professionals with an accessible foundation in the metrology techniques instruments and governing standards used in mechanical engineering and manufacturing The book opens with an overview of metrology units and scale then moves on to explain topics such as sources of error calibration systems uncertainty and dimensional mechanical and thermodynamic measurement systems A chapter on tolerance stack ups covers GD T ASME Y14.5 2018 and the ISO standard for general tolerances while a chapter on digital measurements connects metrology to newer Industry 4.0 applications      **Advances in Manufacturing II** Magdalena Diering, Michał Wieczorowski, Christopher A. Brown, 2019-05-08 This book gathers timely contributions on metrology and measurement systems across different disciplines and field of applications The chapters which were presented at the 6th International Scientific Technical Conference MANUFACTURING 2019 held on May 19-21 2019 in Poznan Poland cover cutting edge topics in surface metrology biology chemistry civil engineering food science material science mechanical engineering manufacturing metrology nanotechnology physics tribology quality engineering computer science among others By bringing together engineering and economic topics the book is intended as an extensive timely and practice oriented reference guide for both researchers and practitioners It is also expected to foster better communication and closer cooperation between universities and their business and industry partners      **Metrology for Engineers** John Frederick Wise Galyer, C. R. Shotbolt, 1964      *A History of Engineering Metrology* Kenneth John Hume, 1980      *Metrology and Properties of Engineering Surfaces* E. Mainsah, J.A. Greenwood, D.G. Chetwynd, 2013-03-14 Metrology and Properties of Engineering Surfaces provides in a single volume a comprehensive and authoritative treatment of the crucial topics involved in the metrology and properties of engineering surfaces The subject matter is a central issue in manufacturing technology since the quality and reliability of manufactured components depend greatly upon the selection and qualities of the appropriate materials as ascertained through measurement The book can in broad terms be split into two parts the first deals with the metrology of engineering surfaces and covers the important issues relating to the measurement and characterization of surfaces in both two and three dimensions This covers topics such as

filtering power spectral densities autocorrelation functions and the use of Fractals in topography A significant proportion is dedicated to the calibration of scanning probe microscopes using the latest techniques The remainder of the book deals with the properties of engineering surfaces and covers a wide range of topics including hardness measurement and relevance surface damage and the machining of brittle surfaces the characterization of automobile cylinder bores using different techniques including artificial neural networks and the design and use of polymer bearings in microelectromechanical devices Edited by three practitioners with a wide knowledge of the subject and the community Metrology and Properties of Engineering Surfaces brings together leading academics and practitioners in a comprehensive and insightful treatment of the subject The book is an essential reference work both for researchers working and teaching in the technology and for industrial users who need to be aware of current developments of the technology and new areas of application

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