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this treatise on the subject electrical measurements and measuring instruments contains comprehensive treatment of the subject matter in simple lucid and direct language it covers

the syllabi of the various indian universities in this subject exhaustively

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electrical and electronic measurement and instrumentation is one of the core subjects taught to electrical electronic and instrumentation students at b tech and other equivalent levels the content of this book has been prepared after consulting the syllabuses of a large number of indian universities although books are available on this subject it was felt necessary to prepare the one that exactly responds to the students learning needs and to create their interest in this subject thus the presentation here has been especially made simple and easy to understand

this basic source for identification of u s manufacturers is arranged by product in a large multi volume set includes products services company profiles and catalog file

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originally published in 1917 preface the subject of electrical measurements has received much attention in the literature of electrical engineering in general however the treatment has been from a theoretical or academic point of view in this volume the author has endeavored to present the subject in a simple practical manner and from the standpoint of engineers who are actively engaged in making measurements tests and investigations in the

electrical industry all classes of measurements that the laboratory and testing engineer is ordinarily called upon to make have been covered the method of treatment and part of the material is the same as to the fourth that in the authors contribution on this subject edition of the standard handbook for electrical engineers instruments must naturally form a prominent part of any discussion of electrical measurements but detailed descriptive matter pertaining to commercial instruments has been limited to those instruments in most general use and without which the book would be obviously incomplete maximum demand meters have however been described rather extensively because they are a comparatively recent development a short chapter has also been devoted to curve drawing instruments because of their important part in commercial measurements and in laboratory investigations new york city june 1917 contents include page preface v chapter i introductory 1 measurements units fundamental or absolute electrical units practical units and standards relation between absolute and practical units primary and secondary standards precision precision of commercial measurements general precautions in electrical measurements chapter ii galvanometers 11 general mounting characteristics of galvanometers sensitivity and constants figure of merit factor of merit damping critical damping period galvanometer shunts plain shunts universal shunts selection of a galvanometer ruggedness stability of zero resistance period damping magnetic impurities sensitivity continuous current galvanometers tangent galvanometer sine galvanometer kelvin galvanometer broca galvanometer darsonval galvanometers portable darsonval galvanometers einthoven string galvanometer ballistic galvanometers alternating current galvanometers electrodymanometer galvanometers thermal galvanometers vibration galvanometers rectifiers galvanometer deflections reflectinggalvanometer deflections galvanometers as detectors galvanometer scales chapter iii continuous e m f measurements 37 unit of e m f

the importance of measuring instruments and transducers is well known in the various engineering fields the book provides comprehensive coverage of various electrical and electronic measuring instruments transducers data acquisition system storage and display devices the book starts with explaining the theory of measurement including characteristics of instruments classification standards statistical analysis and limiting errors then the book explains the various electrical and electronic instruments such as pmmc moving iron electrodymanometer type energy meter wattmeter digital voltmeters and multimeters it also includes the discussion of various magnetic measurements instrument transformers power factor meters frequency meters phase meters and synchros the book further explains d c and

a c potentiometers and their applications the book teaches various d c and a c bridges along with necessary derivations and phasor diagrams the book incorporates the various storage and display devices such as recorders plotters printers oscilloscopes led lcds and dot matrix displays the chapter on transducers is dedicated to the detailed discussion of various types of transducers such as resistive capacitive strain gauges rtd thermistors inductive lvdt thermocouples piezoelectric photoelectric and digital transducers it also adds the discussion of optical fiber sensors the book also includes good coverage of data acquisition system data loggers dacs and adcs each chapter starts with the background of the topic then it gives the conceptual knowledge about the topic dividing it in various sections and subsections each chapter provides the detailed explanation of the topic practical examples and variety of solved problems the book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

in this edition the book has been completely updated by adding new topics in various chapters besides this two new chapters namely microprocessors and microcontrollers chapter 13 and universities questions latest with solutions chapter 14 have been added to make the book still more useful to the readers

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