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this book presents the theory that positional obstruction of the inferior vena cava by the gravid uterus might contribute to the causation of preeclampsia fetal growth restriction preterm birth dysfunctional labor and uterine atony investigating this possibility is timely since non invasive technology now exists which detects hemodynamically significant obstruction of the inferior vena cava in real time by relying on the fact that such obstruction causes an immediate decrease in maternal cardiac output if further research shows that obstruction of uterine venous return at the inferior vena cava can cause maternal or fetal injury systematic reduction of this obstruction during gestation might improve maternal and fetal outcomes written in a direct informal and engaging style and enriched with clinical insights and abundant colorful graphics this thought provoking and potentially ground breaking work should be of interest to maternal and neonatal health professionals including obstetricians maternal fetal medicine specialists neonatologists obstetric anesthesiologists and midwives

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 electrodynamometer 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

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

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

Excerpt from Electrical Measurements in this book it is intended to give a general treatment of the subject of electrical measurements special emphasis being placed on those matters which are important to the student of electrical engineering in preparing a book of this character one has to consider not only the mature reader who may desire a compendium of methods together with certain practical suggestions but the student who is beginning the study of electrical engineering and who should acquire early in his course a sound knowledge of the process of electrical measurement this knowledge is fundamental not only to much of the work which the student is required to do in the dynamo laboratory as a matter of engineering training but to an adequate understanding of electrical testing as it is encountered in the practice of the electrical engineering profession in the preparation of the text this second class of readers has been particularly in mind it is assumed that those who use this text have had courses in physics the theory of electricity and in mathematics such as are given to third year students in technical schools of the first rank the choice of material and the method of treatment have been determined by the authors experience in directing for many years the work of the laboratory for technical electrical measurements at the Massachusetts Institute of Technology and the book is intended as a text for the guidance of students working in such a laboratory as well as a general reference book on the subject it is expected that those using the book for purposes of instruction will select such portions as are best suited to their purposes for more material is presented than can be utilized in both the class room and the laboratory in the time which can properly be allotted to this particular phase of electrical engineering instruction about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be

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