

# Electrical Measurements

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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 electrodynamicometer 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 lvdv 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 i covers the syllabi of the various indian universities in this subject exhaustively

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