



# Electronic Measurements and Instrumentation

*U.A.Bakshi, A.V.Bakshi*

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## **Electronic Measurements and Instrumentation** U.A.Bakshi, A.V.Bakshi

Unit, Dimensions and Standards : Scientific notations and metric prefixes. SI electrical units, SI temperature scales, Other unit systems, Dimension and standards. Measurement Errors : Gross error, Systematic error, Absolute error and relative error, Accuracy, Precision, Resolution and significant figures, Measurement error combination, Basics of statistical analysis. PMMC instrument, Galvanometer, D.C. ammeter, D.C. voltmeter, Series ohm meter. Transistor voltmeter circuits, A.C. electronic voltmeter, Current measurement with electronic instruments, Multimeter probes. Digital voltmeter systems, Digital multimeters, Digital frequency meter system. Voltmeter and ammeter methods, Wheatstone bridge, Low resistance measurements, Low resistance measuring instruments. A.C. bridge theory, Capacitance bridges, Inductance bridges, Q meter. CRO : CRT, Waveform display, Time base, Dual trace oscilloscope, Measurement of voltage, Frequency and phase by CRO, Oscilloscope probes, Oscilloscope specifications and performance. Delay time based oscilloscopes, Sampling oscilloscope, DSO, DSO applications. Instrument Calibration : Comparison method, Digital multimeters as standard instrument, Calibration instrument. Recorders : X-Y recorders, Plotters.

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