Measurement Science for Engineers

Description: This volume, from an international authority on the subject, deals with the physical and instrumentation aspects of measurement science, the availability of major measurement tools, and how to use them. This book not only lays out basic concepts of electronic measurement systems, but also provides numerous examples and exercises for the student.

Ideal for courses on instrumentation, control engineering and physics
Numerous worked examples and student exercises

Contents:
Introduction
Basics of measurement
Measurement errors and uncertainty
ture values, errors and uncertainty
Analogue signal conditioning
Digital signal conditioning
Analogue to digital and digital to analogue conversion
Measurement
thermal and optical quantities, magnetic quantities time and time-related quantities
Measurement of mechanical quantities
Imaging instruments
Worked examples

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