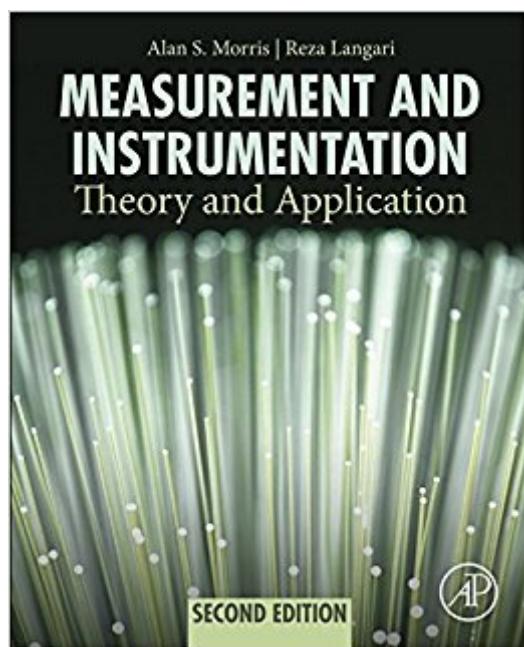


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# Measurement And Instrumentation: Theory And Application



## **Synopsis**

Measurement and Instrumentation: Theory and Application, Second Edition, introduces undergraduate engineering students to measurement principles and the range of sensors and instruments used for measuring physical variables. This updated edition provides new coverage of the latest developments in measurement technologies, including smart sensors, intelligent instruments, microsensors, digital recorders, displays, and interfaces, also featuring chapters on data acquisition and signal processing with LabVIEW from Dr. Reza Langari. Written clearly and comprehensively, this text provides students and recently graduated engineers with the knowledge and tools to design and build measurement systems for virtually any engineering application. Provides early coverage of measurement system design to facilitate a better framework for understanding the importance of studying measurement and instrumentation. Covers the latest developments in measurement technologies, including smart sensors, intelligent instruments, microsensors, digital recorders, displays, and interfaces. Includes significant material on data acquisition and signal processing with LabVIEW. Extensive coverage of measurement uncertainty aids students' ability to determine the accuracy of instruments and measurement systems.

## **Book Information**

File Size: 35740 KB

Print Length: 693 pages

Publisher: Academic Press; 2 edition (August 13, 2015)

Publication Date: August 13, 2015

Sold by: Digital Services LLC

Language: English

ASIN: B0148FPMNW

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #621,467 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #18 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Measurement #37 in Kindle Store > Kindle eBooks > Nonfiction > Science > Experiments, Instruments & Measurement > Measurement #120 in Kindle Store > Kindle eBooks > Engineering &

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