



# Instrumentation Reference Book, Fourth Edition

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## Instrumentation Reference Book, Fourth Edition From Butterworth-Heinemann

The discipline of instrumentation has grown appreciably in recent years because of advances in sensor technology and in the interconnectivity of sensors, computers and control systems. This 4e of the *Instrumentation Reference Book* embraces the equipment and systems used to detect, track and store data related to physical, chemical, electrical, thermal and mechanical properties of materials, systems and operations. While traditionally a key area within mechanical and industrial engineering, understanding this greater and more complex use of sensing and monitoring controls and systems is essential for a wide variety of engineering areas--from manufacturing to chemical processing to aerospace operations to even the everyday automobile.

In turn, this has meant that the automation of manufacturing, process industries, and even building and infrastructure construction has been improved dramatically. And now with remote wireless instrumentation, heretofore inaccessible or widely dispersed operations and procedures can be automatically monitored and controlled. This already well-established reference work will reflect these dramatic changes with improved and expanded coverage of the traditional domains of instrumentation as well as the cutting-edge areas of digital integration of complex sensor/control systems.

- Thoroughly revised, with up-to-date coverage of wireless sensors and systems, as well as nanotechnologies role in the evolution of sensor technology
- Latest information on new sensor equipment, new measurement standards, and new software for embedded control systems, networking and automated control
- Three entirely new sections on Controllers, Actuators and Final Control Elements; Manufacturing Execution Systems; and Automation Knowledge Base
- Up-dated and expanded references and critical standards

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"The book presents a huge range of techniques for measurement of mechanical and electrical properties, temperature, chemical composition, and radiation, and includes the theory and basic working knowledge required to apply the techniques.... Process, automation, and instrumentation engineers, technicians, and anyone working in the instrumentation or automation fields will find this book a useful one-stop source covering a wide variety of measurement techniques." --**IEEE Electrical Insulation**

### **About the Author**

Walt Boyes serves as Director of Electronic Publications for ISA, the International Society for Measurement and Control and as Vice President of the Seattle Section, ISA. As EPubs Director, he is responsible for overseeing of ISA Online, the online presence of the society, as well as all other electronic publishing endeavors of the Society. He also provides consulting services in the fields of sales management, marketing, and new product development through MP Consultants

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