

Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement

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The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes.

Organized according to measurement problem, the **Spatial**, **Mechanical**, Thermal, and Radiation Measurement volume of the Second Edition:

- Contains contributions from field experts, new chapters, and updates to all 96 existing chapters
- Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors

A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications.

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Editorial Review

Review

"Engineers, involved with instrumentation and measurement, will find this book an outstanding 'go to' resource, with very broad coverage and detailed descriptions of modern measurement methods and techniques."

?IEEE Electrical Insulation Magazine, January/February 2015

About the Author

John G. Webster received his BS from Cornell University, Ithaca, New York, USA and M.Sc and Ph.D from University of Rochester, New York, USA. A fellow of the Institute of Electrical and Electronics Engineers, Instrument Society of America, American Institute of Medical and Biological Engineering, Biomedical Engineering Society, and Institute of Physics, he served on the IEEE-EMBS Administrative Committee and NIH Surgery and Bioengineering Study Section, authored/co-authored and edited/co-edited numerous books and publications, and received the IEEE-EMBS Career Achievement Award. A highly cited researcher for King Abdulaziz University, Jeddah, Saudi Arabia, he is currently a professor emeritus at University of Wisconsin-Madison, USA.

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