



Sensors and Actuators: Engineering System Instrumentation, Second Edition

Clarence W. de Silva

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An engineering system contains multiple components that interconnect to perform a specific task. Starting from basic fundamentals through to advanced applications, **Sensors and Actuators: Engineering System Instrumentation, Second Edition** thoroughly explains the inner workings of an engineering system. The text first provides introductory material?practical procedures and applications in the beginning?and then methodically integrates more advanced techniques, theory, and concepts throughout the book. Emphasizing sensors, transducers, and actuators, the author discusses important aspects of component matching and interconnection, interface between the connected components, signal modification, and signal conditioning/modification. He also addresses functions, physical principles, operation and interaction, and the proper selection and interfacing of these components for various engineering/control applications.

This second edition provides a thorough revision of the first and includes new worked examples, new applications, and thoroughly updated as well as entirely new material. In addition, it provides increased coverage of sensor systems technologies and updated coverage of computer tools, including MATLAB®, Simulink, and LabView.

What's New in the Second Edition:

- A new chapter on estimation from measurements, which includes various practical procedures and applications of estimation through sensed data
- New material on microelectromechanical systems (MEMS)
- New material on multisensor data fusion
- New material on networked sensing and localization
- Many new problems and worked examples
- Chapter highlights and summary sheets, for easy reference and recollection

Sensors and Actuators: Engineering System Instrumentation, Second Edition provides users from a variety of engineering backgrounds with a complete overview of engineering system components for instrumentation. It presents current techniques, advanced theory and concepts, and addresses relevant design issues, component selection, and practical applications.

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