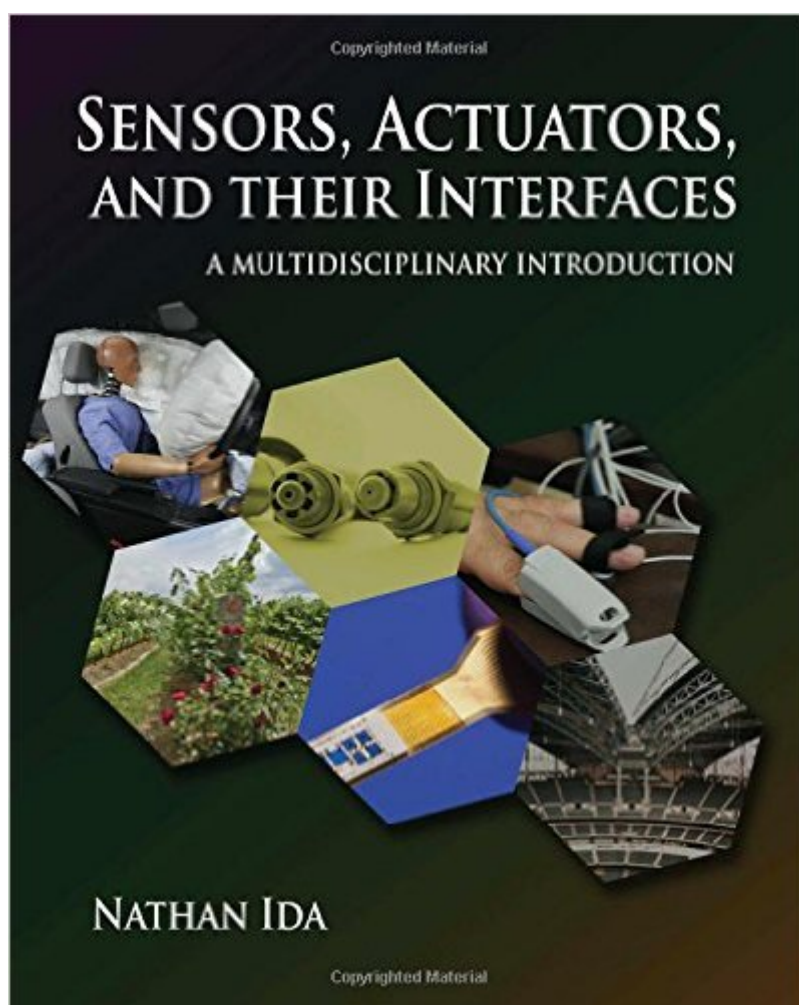


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Sensors, Actuators, And Their Interfaces: A Multidisciplinary Introduction (Materials, Circuits And Devices)



Synopsis

This undergraduate textbook introduces students to the principles and applications of sensors and actuators, crossing multiple disciplines including aerospace, biomedical, chemical, civil, electrical and mechanical engineering. An excellent professional reference for those needing to learn the basics of sensing and actuation, this book is a good choice for industry training seminars. This book connects the dots of theory and circuits basics into meaningful systems and real-world applications. Designed to introduce students and practitioners to the principles and applications of sensors and actuators, this book discusses processing hardware and the embedded systems software that connects them. It is written based on the theory that a system is made of three components: Inputs, Outputs and Processors and looks at sensors and actuators based on the broad area of detection. Important coverage is given to interfacing (the processes and mechanisms between the sensor and actuator) that make a system work reliably and accurately. The material is presented with clear explanations, examples and diagrams, making it ideal for students and practitioners concerned with systems engineering in a broad variety of fields, especially those that depend on sensors for detecting pre-determined conditions.

Book Information

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