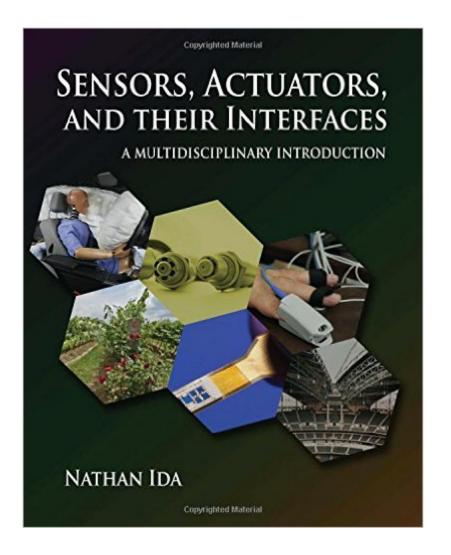
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Sensors, Actuators, And Their Interfaces: A Multidisciplinary Introduction (Materials, Circuits And Devices)





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 â œconnects the dotsâ • 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

Series: Materials, Circuits and Devices Hardcover: 600 pages Publisher: SciTech Publishing (December 17, 2013) Language: English ISBN-10: 1613530064 ISBN-13: 978-1613530061 Product Dimensions: 1.2 x 8 x 10 inches Shipping Weight: 3.7 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #1,481,826 in Books (See Top 100 in Books) #138 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Sensors #870 in Books > Textbooks > Engineering > Industrial Engineering #6628 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems Download to continue reading...

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