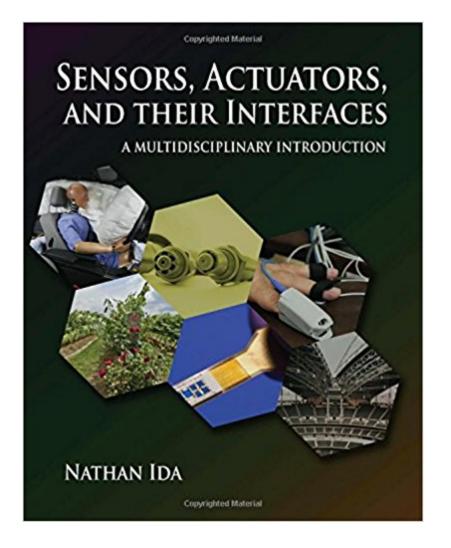


# The book was found

# 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 econnects 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.Supplementary materials for professors are available via email to books@theiet.org.

#### **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: #762,127 in Books (See Top 100 in Books) #81 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Sensors #479 in Books > Textbooks > Engineering > Industrial Engineering #3383 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems

### **Customer Reviews**

Nathan Ida is the Distinguished Professor of Electrical and Computer Engineering at the University

of Akron. He is the author of five previous books in the area of electromagnetics and over 250 journal and conference papers. A Fellow of the IEEE and the American Society for non-destructive testing, he is active in numerous conferences and symposia that emphasize interdisciplinary research and practical applications.

#### Download to continue reading...

Sensors, Actuators, and Their Interfaces: A Multidisciplinary Introduction (Materials, Circuits and Devices) CMOS Digital Integrated Circuits: A First Course (Materials, Circuits and Devices) The Hydraulics Manual: Includes Hydraulic Basics, Hydraulic Systems, Pumps, Hydraulic Actuators, Valves, Circuit Diagrams, Electrical Devices, Troubleshooting and Safety (Mechanics and Hydraulics) Ferroelectric Devices & Piezoelectric Actuators: Research Misconceptions and Rectifications Solid State Electrochemistry and Its Applications to Sensors and Electronic Devices (Materials Science Monographs) Introduction to Biomechatronics (Materials, Circuits and Devices) Prostheses: Design, Types, and Complications (Biomedical Devices and Their Applications; Medical Devices and Equipment) An Introduction to Interfaces and Colloids: The Bridge to Nanoscience Selected Topics in RF, Analog and Mixed Signal Circuits and Systems (Tutorials in Circuits and Systems) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Contemporary Electronics: Fundamentals, Devices, Circuits, and Systems Power Electronics: Circuits, Devices and Applications (3rd Edition) Photodetectors: Devices, Circuits and Applications Introductory Electronic Devices and Circuits: Conventional Flow Version, Sixth Edition Introductory Electronic Devices and Circuits: Electron Flow Version (5th Edition) Introductory Electronic Devices and Circuits: Conventional Flow Version (5th Edition) Introductory Electronic Devices and Circuits Principles of Superconductive Devices and Circuits (2nd Edition) Electronics Fundamentals: Circuits, Devices & Applications (8th Edition) Foundations of Electronics: Circuits & Devices Conventional Flow

Contact Us

DMCA

Privacy

FAQ & Help