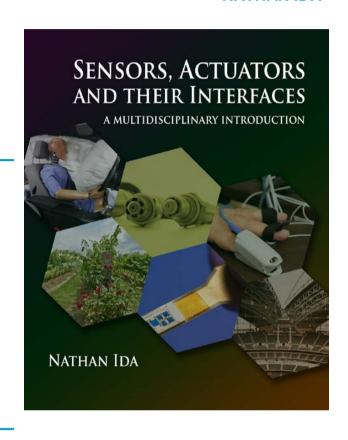**IET** The Institution of Engineering and Technology

SENSORS, ACTUATORS, AND THEIR INTERFACES: A MULTIDISCIPLINARY INTRODUCTION

NATHAN IDA

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.

- Written based on the theory that a system is made of three components: Inputs, Outputs and Processor.
- 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.
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- Ideal for course study, training and self-study in the field of systems engineering.

READERSHIP

Students and practitioners concerned with systems engineering in a broad variety of fields, especially those that depend on sensors for detecting pre-determined conditions.

AUTHOR INFORMATION

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.

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