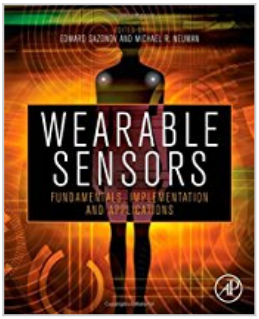

Wearable Sensors: Fundamentals, Implementation and Applications

From Academic Press

Wearable Sensors: Fundamentals, Implementation and Applications From Academic Press

Written by industry experts, this book aims to provide you with an understanding of how to design and work with wearable sensors. Together these insights provide the first single source of information on wearable sensors that would be a valuable addition to the library of any engineer interested in this field.

Wearable Sensors covers a wide variety of topics associated with the development and application of various wearable sensors. It also provides an overview and coherent summary of many aspects of current wearable sensor technology. Both industry professionals and academic researchers will benefit from this comprehensive reference which contains the most up-to-date information on the advancement of lightweight hardware, energy harvesting, signal processing, and wireless communications and networks. Practical problems with smart fabrics, biomonitoring and health informatics are all addressed, plus end user centric design, ethical and safety issues.

- Provides the first comprehensive resource of all currently used wearable devices in an accessible and structured manner.
- Helps engineers manufacture wearable devices with information on current technologies, with a focus on end user needs and recycling requirements.
- Combines the expertise of professionals and academics in one practical and applied source.

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Editorial Review

About the Author
Edward Sazonov is an Associate Professor in the department of Electrical and Computer Engineering at the University of Alabama, Tuscaloosa, AL, USA and the head of the Computer Laboratory of Ambient and Wearable Systems (http://claws.eng.ua.edu). Wearable devices developed in his laboratory include an accurate physical activity and gait monitor integrated into a shoe insole (SmartStep); a wearable sensor for objective detection and characterization of food intake (AIM); a wearable sensor system for monitoring of cigarette smoking (PACT); sensor systems for early diagnosis of risk of falling in elderly (ALARM) and others. His research has been supported by the National Science Foundation, National Institutes of Health, National Academies of Science, as well as by state agencies and private industry.

Michael R. Neuman joined the Department of Biomedical Engineering at Michigan Technological University in 2003, as Professor and Chairman, the latter ending in 2010. Previously he held the Herbert Herff Chair of Excellence at the Memphis Joint Program in Biomedical Engineering. He served for thirty-two years on the faculty at Case Western Reserve University in the Departments of Biomedical Engineering, Electrical Engineering, Reproductive Biology and Obstetrics and Gynecology. Dr. Neuman was Editor in Chief of the IEEE Transactions on Biomedical Engineering from 1989 through 1996. He also edited Physiological Measurement from 2002 through 2007 and served as Editor in Chief of the biomedical engineering magazine, IEEE Pulse from 2008 through 2013. Dr Neuman’s research has been in the area of biomedical sensors and instrumentation with emphasis on clinical applications.

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