Organic Sensors: Materials and Applications (Control, Robotics and Sensors)

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Organic Sensors: Materials and Applications features contributions from an international panel of leading researchers in organic electronics and their applications as sensors. It reviews the state-of-the-art in the use of organic electronic materials such as organic semiconductors, conducting polymers, chemically functionalized materials, and composite materials as physical, chemical and biomedical sensors in a variety of application settings.

Topics covered include organic semiconductors for chemical and physical sensing; conducting polymers in sensor applications; chemically functionalized organic semiconductors for highly selective sensing; composite organic-inorganic sensors; artificial skin applications; organic thin film transistor strain gauges for biomedical applications; OTFT infrared sensors for touchless human-machine interaction; smart fabric sensors and e-textile technologies; image capture with organic sensors; organic gas sensors and electronic noses; electrolyte gated organic transistors for biochemical sensing; ion-selective organic electrochemical transistors; DNA biosensors; metabolic organic sensors; and conductive polymer-based sensors for biomedical applications.

This book is cross-disciplinary in its approach and combines electronic engineering, materials science, chemistry, physics and healthcare technology. It will be an invaluable resource for researchers working in sensors and organic electronics.

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