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Biomedical Signals and Sensors I: Linking Physiological Phenomena and Biosignals (Biological and Medical Physics, Biomedical Engineering) 2012th Edition. by Eugenijus Kaniusas (Author) 5.0 out of 5 stars 2 ratings. ISBN-13: 978-3642248429. ISBN-10: 364224842X.

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Biomedical Signals and Sensors I: Linking Physiological Phenomena and Biosignals. Eugenijus Kaniusas (auth.) This two-volume set focuses on the interface between physiologic mechanisms and diagnostic human engineering. Today numerous biomedical sensors are commonplace in clinical practice. The registered biosignals reflect mostly vital physiologic phenomena.

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Biomedical Sensors: Types of sensors and How it works. By yida 1 year ago. Sensors are everywhere, be it whether we are engineers, doctors or anyone, we are surrounded by sensors. It is a device that converts signals from one energy domain to electrical domain which you commonly see in your homes, offices, shopping malls, hospitals like fire sensors and door sensors which makes our life easier and safer.

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The book presents applications of acoustic biomedical sensors and bio-signal processing for prediction, detection, and monitoring of some diseases from the phonocardiogram (PCG) signal analysis. Several challenges and future perspectives related to the acoustic sensors applications are highlighted.

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According to biological sensing component, biosensor may be divided into five classes: enzyme sensor, microbe sensor, cell sensor, tissue sensor, and immune sensors. According to the signal converter of biosensor, biosensor may be also divided into five classes: bioelectrode sensor, semiconductor biosensor, optical biosensor, piezoelectric biosensor and thermal biosensor.

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The three main axes of this proposal are: parallel or distributed capture, filtering and adaptation of biomedical signals, and synchronization in real epochs of sampling. Thus, the present proposal underlies a general system, whose main objective is to be a wireless benchmark in the field.

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Sensors, an international, peer-reviewed Open Access journal. Dear Colleagues, Healthcare deployment will increasingly take advantage of unobtrusive sensing, supported by (ultra)low-power technology, wireless communication, signal processing, and machine learning to expand in the direction of extramural patient monitoring.

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The sensor's main role is to measure a specific quantity and create a signal for interpretation. The human bodies continuously communicate health information that reflects the status of the body organs and the overall health information.

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As the third volume in the author's series on "Biomedical Signals and Sensors," this book explains in a highly instructive way how electric, magnetic and electromagnetic fields propagate and interact with biological tissues. The series provides a bridge between physiological mechanisms and theranostic human engineering.

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The development of new materials in recent decades has resulted in the acquisition of biomedical signals becoming more accessible for researchers. In fact, the new sensors for data recording are miniaturized and wearable and, above all, they are more sensitive and accurate with respect to signal acquisition.

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Such sensoric systems provide clinical information in the form of biomedical signals and images which are further processed. In order to provide proper clinical information, we need to employ modern intelligent methods for processing and

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extracting clinical information, reporting the state of analyzed tissues.

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