Wireless Medical Systems and Algorithms: Design and Applications (Devices, Circuits, and Systems)

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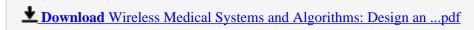
Wireless Medical Systems and Algorithms: Design and Applications (Devices, Circuits, and Systems)

Wireless Medical Systems and Algorithms: Design and Applications provides a state-of-the-art overview of the key steps in the development of wireless medical systems, from biochips to brain–computer interfaces and beyond. The book also examines some of the most advanced algorithms and data processing in the field.

Addressing the latest challenges and solutions related to the medical needs, electronic design, advanced materials chemistry, wireless body sensor networks, and technologies suitable for wireless medical devices, the text:

- Investigates the technological and manufacturing issues associated with the development of wireless medical devices
- Introduces the techniques and strategies that can optimize the performances of algorithms for medical applications and provide robust results in terms of data reliability
- Includes a variety of practical examples and case studies relevant to engineers, medical doctors, chemists, and biologists

Wireless Medical Systems and Algorithms: Design and Applications not only highlights new technologies for the continuous surveillance of patient health conditions, but also shows how disciplines such as chemistry, biology, engineering, and medicine are merging to produce a new class of smart devices capable of managing and monitoring a wide range of cognitive and physical disabilities.

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