

## Mobile Point-of-Care Monitors and Diagnostic Device Design (Devices, Circuits, and Systems)

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**Mobile Point-of-Care Monitors and Diagnostic Device Design (Devices, Circuits, and Systems)** From CRC Press

Efficient mobile systems that allow for vital sign monitoring and disease diagnosis at the point of care can help combat issues such as rising healthcare costs, treatment delays in remote and resource-poor areas, and the global shortage of skilled medical personnel.

Covering everything from sensors, systems, and software to integration, usability, and regulatory challenges, **Mobile Point-of-Care Monitors and Diagnostic Device Design** offers valuable insight into state-of-the-art technologies, research, and methods for designing personal diagnostic and ambulatory healthcare devices. Presenting the combined expertise of contributors from various fields, this multidisciplinary text:

- Gives an overview of the latest mobile health and point-of-care technologies
- Discusses portable diagnostics devices and sensors, including mobile-phone-based health systems
- Explores lab-on-chip systems as well as energy-efficient solutions for mobile point-of-care monitors
- Addresses computer vision and signal processing for real-time diagnostics
- Considers interface design for lay healthcare providers and home users

**Mobile Point-of-Care Monitors and Diagnostic Device Design** provides important background information about the design process of mobile health and point-of-care devices, using practical examples to illustrate key aspects related to instrumentation, information processing, and implementation.

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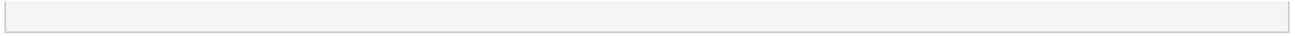
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- Sales Rank: #2910157 in Books
- Published on: 2014-09-12
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x .90" w x 6.20" l, .0 pounds
- Binding: Hardcover
- 186 pages

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#### Review

"If you are considering potential applications in this field, this book may be of value to you. ... This text could be a useful introduction to the field of point-of-care technologies for the student or professional considering development of globally useful, inexpensive diagnostic technologies for the betterment of health care worldwide. While the primary base device for much of this text (and development) is the smartphone, the text is generic enough in approach that other areas of endeavor could be attempted."

?Paul H. King, Vanderbilt University, Nashville, Tennessee, USA, from *IEEE Pulse*, March 2016

"... provides a sound background in mobile technology and sensor fundamentals, along with a number of cutting-edge technologies. It makes good sense for those working in healthcare technology to gain knowledge in the area of mobile point-of-care devices, and this book is an excellent reference in this regard."

?Tobey Clark, Director of Instrumentation and Technical Services, University of Vermont, Burlington, USA, from *Biomedical Instrumentation and Technology*, July/August 2015

#### About the Author

**Walter Karlen** received his M.Sc in micro-engineering and Ph.D in computer, communication, and information sciences from École Polytechnique Fédérale de Lausanne, Switzerland. Dr. Karlen currently holds a joint post-doctoral fellowship with the Department of Mechanical and Mechatronics Engineering at the University of Stellenbosch, South Africa and the Electrical and Computer Engineering in Medicine Research Group at the University of British Columbia in Vancouver, Canada, where he works on mobile phone implementations of biomedical sensors for global health applications.

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