Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering)

Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen

[Click here](#) if your download doesn"t start automatically

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering)

Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen
Wireless sensor network (WSN) is an ad-hoc network technology comprising even thousands of autonomic and self-organizing nodes that combine environmental sensing, data processing, and wireless networking. The applications for sensor networks range from home and industrial environments to military uses. Unlike the traditional computer networks, a WSN is application-oriented and deployed for a specific task. WSNs are data centric, which means that messages are not send to individual nodes but to geographical locations or regions based on the data content. A WSN node is typically battery powered and characterized by extremely small size and low cost. As a result, the processing power, memory, and energy resources of an individual sensor node are limited. However, the feasibility of a WSN lies on the collaboration between the nodes. A reference WSN node comprises a Micro-Controller Unit (MCU) having few Million Instructions Per Second (MIPS) processing speed, tens of kilobytes program memory, few kilobytes data memory. In addition, the node contains a short-range radio, and a set of sensors. Supply power is typically obtained with small batteries. Assuming a target lifetime of one year using AA-size batteries, the available power budget is around 1 mW. This book covers the low-power WSNs services ranging from hardware platforms and communication protocols to network deployment, and sensor data collection and actuation. The implications of resource constraints and expected performance in terms of throughput, reliability and latency are explained. As a case study, this book presents experiments with low-energy TUTWSN technology to illustrate the possibilities and limitations of WSN applications.

[⬇] **Download** Low-Power Wireless Sensor Networks (SpringerBriefs ...pdf

[▤] **Read Online** Low-Power Wireless Sensor Networks (SpringerBrie ...pdf

Download and Read Free Online Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen

---

From reader reviews:

Edward Tuttle:

Do you among people who can't read gratifying if the sentence chained in the straightway, hold on guys this specific aren't like that. This Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) book is readable simply by you who hate those perfect word style. You will find the details here are arrange for enjoyable reading experience without leaving actually decrease the knowledge that want to offer to you. The writer of Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) content conveys objective easily to understand by many people. The printed and e-book are not different in the written content but it just different in the form of it. So , do you still thinking Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) is not loveable to be your top listing reading book?

Alan Williams:

Information is provisions for folks to get better life, information nowadays can get by anyone from everywhere. The information can be a expertise or any news even restricted. What people must be consider when those information which is inside the former life are hard to be find than now's taking seriously which one would work to believe or which one often the resource are convinced. If you have the unstable resource then you buy it as your main information you will see huge disadvantage for you. All those possibilities will not happen in you if you take Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) as your daily resource information.

Jason Silva:

Your reading sixth sense will not betray a person, why because this Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) publication written by well-known writer who knows well how to make book which might be understand by anyone who have read the book. Written with good manner for you, still dripping wet every ideas and publishing skill only for eliminate your personal hunger then you still skepticism Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) as good book not only by the cover but also by content. This is one book that can break don't assess book by its cover, so do you still needing an additional sixth sense to pick that!? Oh come on your studying sixth sense already alerted you so why you have to listening to a different sixth sense.

Robert Garcia:

As a pupil exactly feel bored in order to reading. If their teacher inquired them to go to the library in order to make summary for some publication, they are complained. Just little students that has reading's spirit or real their passion. They just do what the teacher want, like asked to the library. They go to right now there but nothing reading seriously. Any students feel that studying is not important, boring along with can't see

colorful photos on there. Yeah, it is to get complicated. Book is very important for yourself. As we know that on this time, many ways to get whatever we wish. Likewise word says, ways to reach Chinese's country. Therefore this Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) can make you feel more interested to read.

Download and Read Online Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen #HO7NPKMGV24

Read Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen for online ebook

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen books to read online.

Online Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen ebook PDF download

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen Doc

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen Mobipocket

Low-Power Wireless Sensor Networks (SpringerBriefs in Electrical and Computer Engineering) by Jukka Suhonen, Mikko Kohvakka, Ville Kaseva, Timo D. Hämäläinen, Marko Hännikäinen EPub