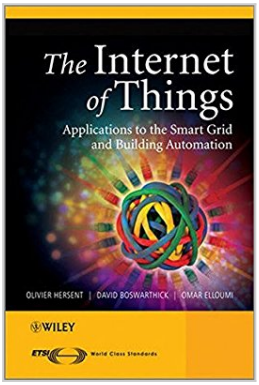

The Internet of Things: Key Applications and Protocols

By Olivier Hersent, David Boswarthick, Omar Elloumi

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi

An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases.

This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources.

Key Features:

- Offers a comprehensive overview of major existing M2M and AMI protocols
- Covers the system aspects of large scale M2M and smart grid applications
- Focuses on system level architecture, interworking, and nationwide use cases
- Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking
- Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications
- Illustrates the benefits of the smartgrid concept based on real examples, including business cases

This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to

senior academic researchers, students, and policy makers and regulators.

The Internet of Things: Key Applications and Protocols

By Olivier Hersent, David Boswarthick, Omar Elloumi

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi

An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases.

This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources.

Key Features:

- Offers a comprehensive overview of major existing M2M and AMI protocols
- Covers the system aspects of large scale M2M and smart grid applications
- Focuses on system level architecture, interworking, and nationwide use cases
- Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking
- Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications
- Illustrates the benefits of the smartgrid concept based on real examples, including business cases

This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi Bibliography

- Sales Rank: #184443 in Books
- Published on: 2012-02-06
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x 1.03" w x 6.85" l, 1.72 pounds
- Binding: Hardcover
- 370 pages

Editorial Review

Review

"The technical content is accurate, timely, and up to date with respect to the state of the art in the field. The book is strongly recommended for engineers, academic researchers, and network operators dealing with the Internet of Things. For these readers, the book represents a valuable and authoritative source of information and reference." (*Computing Reviews*, 1 March 2013)

From the Back Cover
An all-in-one reference to the major Home Area Networking, Building Automation and AMI protocols, including 802.15.4 over radio or PLC, 6LowPAN/RPL, ZigBee 1.0 and Smart Energy 2.0, Zwave, LON, BACNet, KNX, ModBus, mBus, C.12 and DLMS/COSEM, and the new ETSI M2M system level standard. In-depth coverage of Smart-grid and EV charging use cases.

This book describes the Home Area Networking, Building Automation and AMI protocols and their evolution towards open protocols based on IP such as 6LowPAN and ETSI M2M. The authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine-to-machine communication for mission-critical applications, based on the next generation machine-to-machine ETSI M2M architecture. The authors demonstrate, using the example of the smartgrid use case, how the next generation utilities, by interconnecting and activating our physical environment, will be able to deliver more energy (notably for electric vehicles) with less impact on our natural resources.

Key Features:

- Offers a comprehensive overview of major existing M2M and AMI protocols
- Covers the system aspects of large scale M2M and smart grid applications
- Focuses on system level architecture, interworking, and nationwide use cases
- Explores recent emerging technologies: 6LowPAN, ZigBee SE 2.0 and ETSI M2M, and for existing technologies covers recent developments related to interworking
- Relates ZigBee to the issue of smartgrid, in the more general context of carrier grade M2M applications
- Illustrates the benefits of the smartgrid concept based on real examples, including business cases

This book will be a valuable guide for project managers working on smartgrid, M2M, telecommunications and utility projects, system engineers and developers, networking companies, and home automation companies. It will also be of use to senior academic researchers, students, and policy makers and regulators.

About the Author
Olivier Hersent, Consultant, France Olivier Hersent was the founder of NetCentrex and former CTO of Comverse Inc., and previously worked as an R&D Engineer at Orange/France Telecom. He studied finance, quantum physics and psychology at the Ecole Polytechnique from 1991-1994. Hersent is now an independent consultant.

David Boswarthick, ETSI, France David has been extensively involved in the standardization activities of

mobile, fixed and convergent networks in both the European Telecommunications Standards Institute (ETSI) and the 3rd Generation Partnership Project (3GPP) for over 10 years. He is currently involved in the M2M standards group which is defining an end to end architecture and requirements for multiple M2M applications including Smart Metering, healthcare and enhanced home living. David holds a Maste's Degree in Networks and Distributed systems from the University of Nice and Sophia Antipolis, France.

Omar Elloumi, Alcatel-Lucent, France Omar is currently a standardization manager at Alcatel-Lucent. He received his degree in Engineering from Université de Rennes.

Users Review

From reader reviews:

Joan Stauffer:

Do you have favorite book? In case you have, what is your favorite's book? Reserve is very important thing for us to find out everything in the world. Each reserve has different aim or goal; it means that e-book has different type. Some people experience enjoy to spend their time for you to read a book. They are really reading whatever they get because their hobby is usually reading a book. Why not the person who don't like examining a book? Sometime, particular person feel need book when they found difficult problem or exercise. Well, probably you will need this The Internet of Things: Key Applications and Protocols.

Linda Manning:

The book untitled The Internet of Things: Key Applications and Protocols contain a lot of information on it. The writer explains your girlfriend idea with easy method. The language is very clear to see all the people, so do not really worry, you can easy to read it. The book was compiled by famous author. The author gives you in the new age of literary works. You can read this book because you can please read on your smart phone, or device, so you can read the book in anywhere and anytime. In a situation you wish to purchase the e-book, you can open their official web-site and also order it. Have a nice read.

Belinda Kirwin:

Don't be worry when you are afraid that this book can filled the space in your house, you can have it in e-book technique, more simple and reachable. That The Internet of Things: Key Applications and Protocols can give you a lot of pals because by you considering this one book you have point that they don't and make you actually more like an interesting person. This specific book can be one of one step for you to get success. This book offer you information that perhaps your friend doesn't realize, by knowing more than various other make you to be great men and women. So , why hesitate? We should have The Internet of Things: Key Applications and Protocols.

Michelle Morrow:

Publication is one of source of knowledge. We can add our understanding from it. Not only for students and also native or citizen require book to know the update information of year for you to year. As we know those

textbooks have many advantages. Beside most of us add our knowledge, can bring us to around the world. From the book The Internet of Things: Key Applications and Protocols we can acquire more advantage. Don't you to be creative people? To be creative person must choose to read a book. Just simply choose the best book that ideal with your aim. Don't always be doubt to change your life with that book The Internet of Things: Key Applications and Protocols. You can more pleasing than now.

Read The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi for online ebook

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi 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 The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi books to read online.

Online The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi ebook PDF download

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi Doc

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi Mobipocket

The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi EPub

P32NK1QZ5ES: The Internet of Things: Key Applications and Protocols By Olivier Hersent, David Boswarthick, Omar Elloumi