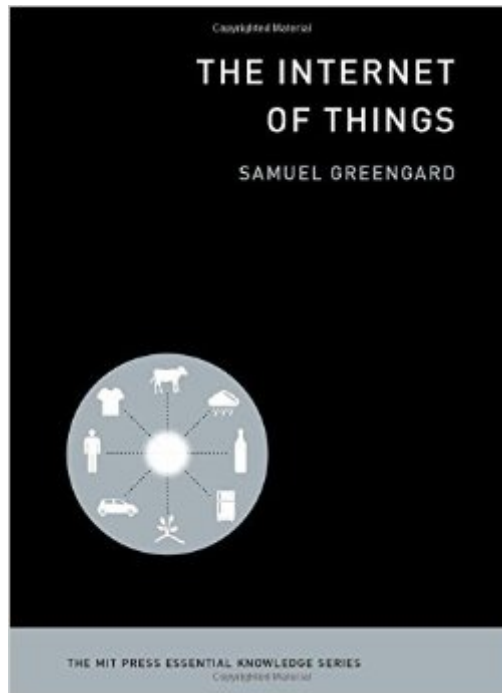


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The Internet Of Things (The MIT Press Essential Knowledge Series)



Synopsis

We turn on the lights in our house from a desk in an office miles away. Our refrigerator alerts us to buy milk on the way home. A package of cookies on the supermarket shelf suggests that we buy it, based on past purchases. The cookies themselves are on the shelf because of a "smart" supply chain. When we get home, the thermostat has already adjusted the temperature so that it's toasty or bracing, whichever we prefer. This is the Internet of Things -- a networked world of connected devices, objects, and people. In this book, Samuel Greengard offers a guided tour through this emerging world and how it will change the way we live and work. Greengard explains that the Internet of Things (IoT) is still in its early stages. Smart phones, cloud computing, RFID (radio-frequency identification) technology, sensors, and miniaturization are converging to make possible a new generation of embedded and immersive technology. Greengard traces the origins of the IoT from the early days of personal computers and the Internet and examines how it creates the conceptual and practical framework for a connected world. He explores the industrial Internet and machine-to-machine communication, the basis for smart manufacturing and end-to-end supply chain visibility; the growing array of smart consumer devices and services -- from Fitbit fitness wristbands to mobile apps for banking; the practical and technical challenges of building the IoT; and the risks of a connected world, including a widening digital divide and threats to privacy and security. Finally, he considers the long-term impact of the IoT on society, narrating an eye-opening "Day in the Life" of IoT connections circa 2025.

Book Information

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Customer Reviews

This is a very badly written introduction to some random possible future developments. It is essentially a collection of some topics the author seems to have thought of, but it doesn't go in depth on anything, and is extremely repetitive. It's divided into chapters, but there's no clear difference between the chapters as they all mention some things that exist, and some things that could come to exist in the future, and benefits we could draw from that. Some topics, like marketing targeted to people based on how they move through a store, are presented as a Good Thing, without discussing that increasing consumption might actually not be a good idea. Some sections are repeated almost word for word several places. For example, from the chapter "Mobility, Clouds, and Digital Tools Usher in a Connected World", page 48: San Francisco-based Adamant Technologies is currently developing a small processor that digitizes smell and taste. The system uses about 2,000 sensors to detect aromas and flavors. This compares to about 400 sensors in the human nose. The system would detect when a person has bad breath or is intoxicated and over the legal limit to drive. A digital nose in a smartphone could also one day detect underlying medical conditions or rancid food." From the chapter "Putting the Internet of Things to Work", page 124: "...San Francisco-based Adamant Technologies is currently developing a small sensor that digitizes smell and taste. It could appear in future smartphones. The system uses about 2,000 sensors to detect aromas and flavours. This compares to about 400 sensors in the human nose. The system would detect when a person has bad breath or over the legal limit to drive.

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