Getting Started with Bluetooth Low Energy: Tools and Techniques for Low-Power Networking

Kevin Townsend, Carles Cufí, Akiba, Robert Davidson

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With Bluetooth Low Energy (BLE), smart devices are about to become even smarter. This practical guide demonstrates how this exciting wireless technology helps developers build mobile apps that share data with external hardware, and how hardware engineers can gain easy and reliable access to mobile operating systems.

This book provides a solid, high-level overview of how devices use BLE to communicate with each other. You'll learn useful low-cost tools for developing and testing BLE-enabled mobile apps and embedded firmware and get examples using various development platforms—including iOS and Android for app developers and embedded platforms for product designers and hardware engineers.

- Understand how data is organized and transferred by BLE devices
- Explore BLE's concepts, key limitations, and network topology
- Dig into the protocol stack to grasp how and why BLE operates
- Learn how BLE devices discover each other and establish secure connections
- Set up the tools and infrastructure for BLE application development
- Get examples for connecting BLE to iPhones, iPads, Android devices, and sensors
- Develop code for a simple device that transmits heart rate data to a mobile device

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