



Book Title:-Internet of Things

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Overview :

This book is targeted for beginners to the Internet of Things (IoT), application developers who want to start off with a hands-on approach towards IoT as their tool of choice, and experts who want to expand their repertoire of tools for analysis.

The book is organized in such a manner that the reader can jump to any chapter they prefer to read and not necessarily follow the order in which chapters are written. Chapters 1 to 3 cover the basics of IoT, and sensors and actuators that are used in any typical IoT-based application. Chapters 4 and 5 cover domain-specific IoT systems, design aspects, and different platforms used for designing an IoT application. Chapter 6 introduces the way Python can be used for logical design of an IoT system. Chapter 7 covers Arduino, Chapter 8 talks about Raspberry Pi, and Chapter 9 covers Intel Galileo SoC platforms for developing IoT systems. Chapters 10 and 11 introduce Web interfaces for IoT. Finally, at the end of the book, a laboratory companion is provided to facilitate students to carry out some laboratory exercises.

Table Of Content :

- 1** Introduction to IoT- (&ldquoInternet of Things&rdquo)
- 2** Transducers, Sensors and Actuators
- 3** IoT Protocols
- 4** Domain Specific IoT
- 5** IoT Platform Design Methodology
- 6** Logical Design Using Python
- 7** IoT Physical Devices and Endpoints Arduino UNO
- 8** IoT Physical Devices and Endpoints RaspberryPi

9IoT Physical Devices and Endpoints Intel Galileo

10 IoT Web Application Development

11 Tools for IoT

Appendix 1 IoT Laboratory