



# Chipless RFID Sensors

*Nemai Chandra Karmakar, Emran Md Amin, Jhantu Kumar Saha*

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## **A systematic treatment of the design and fabrication of chipless RFID sensors**

This book presents various sensing techniques incorporated into chipless RFID systems. The book is divided into five main sections: Introduction to Chipless RFID Sensors; RFID Sensor Design; Smart Materials; Fabrication, Integration and Testing; and Applications of Chipless RFID Sensors. After a comprehensive review of conventional RFID sensors, the book presents various passive microwave circuit designs to achieve compact, high data density and highly sensitive tag sensors for a number of real-world ubiquitous sensing applications. The book reviews the application of smart materials for microwave sensing and provides an overview of various micro- and nano-fabrication techniques with the potential to be used in the development of chipless RFID sensors. The authors also explore a chipless RFID reader design capable of reading data ID and sensory information from the chipless RFID sensors presented in the book. The unique features of the book are:

- Evaluating new chipless RFID sensor design that allow non-invasive PD detection and localization, real-time environment monitoring, and temperature threshold detection and humidity
- Providing a classification of smart materials based on sensing physical parameters (i.e. humidity, temperature, pH, gas, strain, light, etc.)
- Discussing innovative micro- and nano-fabrication processes including printing suitable for chipless RFID sensors
- Presenting a detailed case study on various real-world applications including retail, pharmaceutical, logistics, power, and construction industries

*Chipless RFID Sensors* is primarily written for researchers in the field of RF sensors but can serve as supplementary reading for graduate students and professors in electrical engineering and wireless communications.



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