RFID Handbook: Radio-Frequency Identification Fundamentals and Applications

By Klaus Finkenzeller

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A comprehensive and timely reference on RFID (Radio-Frequency Identification) technology covering the fundamental techniques and principles, and looking at current and potential applications. RFID is used in all areas of automatic data capture allowing contactless identification of objects using RF, from ticketing to industrial automation. This book brings together the disparate information on this fast-growing technology and features include:

* Introduction to the essential operating criteria and physical principles of RFID systems

* The latest information in the standards requirements, manufacture and applications of contactless smart cards

* Coverage of the practical challenges to be considered in real-world applications of RFID from public transport to electronic immobilisation

* Description of coding and modulation, the differentiation features of RFID systems and international standards

* Examination of radio frequency ranges used and international licensing controls including the US-FCC radio regulation standards.

ADC professionals will profit from the detailed overview of current technologies, the legal guidelines and the breadth of applications examples combined within this single resource. End users of RFID products and electrical engineering postgraduates will appreciate this introduction to the basic functionality and the physical principles underlying this new technology.

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Editorial Review

Review
"... an excellent reference book on this technology for users and designers who need inside information into the design of transponder systems. ... This book is highly recommended.", , , Transponder News#"...This book is highly recommended for those with a technical interest in transponder systems....", , , Transponder News#

From the Back Cover
Rfid Handbook Radio-Frequency Identification Fundamentals and Applications Klaus Finkenzeller Giesecke & Devrient GmbH, Munich, Germany Translated by Rachel Waddington Swadlincote, UK Contactless smart card technology explained. RFID (Radio-Frequency Identification) is used in all areas of automatic data capture allowing contactless identification of objects using RF. From ticketing to industrial automation and access control, the applications of RFID are burgeoning. Finkenzeller's comprehensive handbook brings together the disparate information on this developing technology. Features include:
* Introduction to the essential operating criteria and physical principles of RFID systems
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