Special Issue Reprint

Applications of Antenna Technology in Sensors

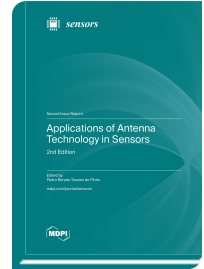www.mdpi.com/books/reprint/11353

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Antenna-based sensors have gained significant attention in recent years, particularly within wireless sensor networks (WSNs), due to their strong potential for current and near-future applications. These systems offer broad utility across a wide range of fields, including military operations, emergency response, healthcare, environmental monitoring, and entertainment. Depending on the application, operating frequencies can span from UHF to millimeter-wave bands.

To support the vision of the Internet of Things (IoT), new generations of sensors must become more immersive and seamlessly integrated into everyday environments and infrastructure. This requires innovative design methodologies and the exploration of novel materials to enable embedded sensors that are capable of communication while maintaining low power consumption.

Recent research in this area focuses on improving both the design and performance analysis of antenna-based sensors. Key challenges include miniaturization, material integration, energy efficiency, and reliability across various use cases. Advancements in this field are essential to meeting future connectivity and sensing needs, driving forward the development of smart, networked systems.

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