

Radio frequency powering of microelectronic sensor modules

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Summary

In RFID applications the use of the electromagnetic field for the power supply of transponders is state-of-the-art. In the context of this presentation the use of the electromagnetic field for the supply of sensor modules will be discussed. Based on the question, if the omnipresent radiation from the power supply network and from radio transmitters and mobile phone base stations is useable (Energy Harvesting), the feasibility for the operation of self-sufficient sensor modules is explained. Additional conditions of typical applications (operating range, measured variable) and technology (antennas, frequencies) are considered.