



# RCS Synthesis for Chipless RFID: Theory and Design

*Olivier Rance, Etienne Perret, Romain Siragusa, Pierre Lemaitre-Auger*

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*RCS Synthesis for Chipless RFID: Theory and Design* focuses on the development of the chipless RFID tag, a new family of low cost tags. In order to increase the coding capacity of the tag, a new design method based on RCS synthesis is proposed. Although this new approach has been developed in the simplified context of chipless RFID, it can be extended to other domains, such as reflect arrays or frequency selective surfaces.

- Includes a theoretical presentation of scattering phenomenon in electromagnetism, regrouping elements from classical RFID, pulse radar, and antenna theory
- Features a new coding technique based on magnitude level that is presented and characterized for different kinds of tags
- Proposes, for the first time, RCS synthesis based on a physical approach for wide-frequency bands

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