

# Full-wave simulation of a vehicle test in a reverberation-chamber

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## Abstract

This paper addresses a full wave simulation of a of a vehicle test in a reverberation chamber, excited by a dipole antenna. A simplified vehicle is modeled inside the chamber, in order to visualize the field pattern. Different approaches of mode stirring in reverberation-chambers are mentioned, and design relations are cited, with their respective influence on the chamber. A commercial full-wave electromagnetic solver based on the Finite Integration Techniques is used to carry out the aforementioned analysis. A brief description of the numerical model representation of the arrangement concerning the software characteristics, and its model constraints are presented.