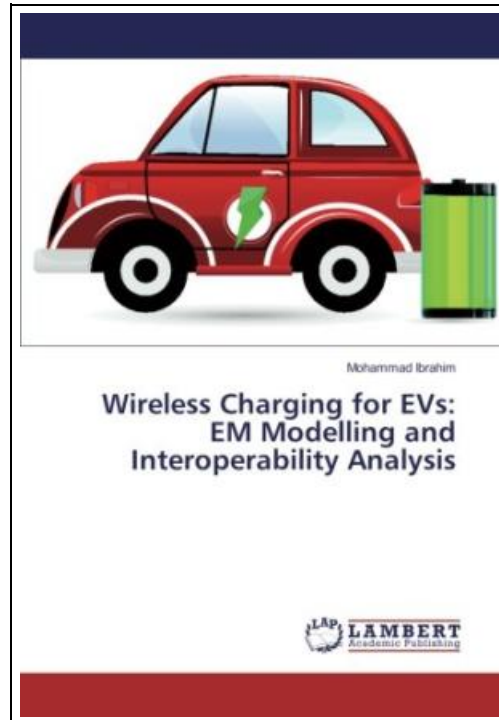# Wireless Charging for EVs: EM Modelling and Interoperability Analysis

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WIRELESS CHARGING FOR EVS: EM MODELLING AND INTEROPERABILITY ANALYSIS

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | This work was supported by the Project "Charge Inductive Electrique Interopérable," and companies: Renault, Schneider Electric, and Newtech Concept. The project is labeled by Movéo and the funding organizations are Oséo (Fond Unique Interminiériel). The design uses different inductive loops realized by industrial partners. It highlights an advanced electromagnetic modeling(EM) concerning the geometrical characteristics, the resonant typologies, and the control loop. It is shown that the EV chassis plays a major role in the calculation of the electrical parameters and the radiation of the interoperable system. Furthermore, the position of the interoperable magnetic couplers with respect to the EV (middle or backend) has an important effect on the values of the coupling factor and also for the radiation of the system. Finally, an efficiency of 90% is realized in the experimental test with the interoperability, which gives flexibility for the driver to use charging stations with different technologies. Index Terms-Electric vehicle, Inductive (wireless) Charging, EM Modelling, Interoperability, radiated EMF, Human Exposure, Power Electronics, resonant converters, Real Tests. | Format: Paperback | Language/Sprache: english | 152 pp.

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