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Regenerative Model for Electric Vehicle Application

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Abstract



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- I. Introduction
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- III. Functioning of Different Modes
- IV. Results & Discussion
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Abstract:

Nowadays, Electric vehicles (EV's) have received much consideration as a substitute for conventional Internal Combustion Engine (ICE) vehicles for having exceptional highlights, for example, low emanation, high proficiency, calm activity, and so forth. But the major issues faced with EV (related with Control system) are Acceleration and Range (travelling distance). The use of the Regenerative Model in (EVs) offers regenerative of energy, battery protection, and improved vehicle increasing speed. The regenerative model for EVs driven by PMDC motor has three modes Normal vehicle mode, Regenerative mode and Battery charging mode. During Regenerative mode (No acceleration, vehicle is in motion) the PMDC works like a generator and this energy is harvested. Henceforth, by utilizing a suitable switching control, the DC voltage is enhanced and the energy is exchanged from the capacitor bank to the battery. The Regenerative Model improves the bank is used to develop vehicle battery security.

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