Residual Capacity Estimation of Batteries in Electric Vehicle with Varying Loads

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ABSTRACT

The goal of this research is to investigate the residual capacity of batteries for varying loads. Past researches on this field focus on the study of stable loading conditions, not so many researches study about the varying loading conditions. We improve the coulometer measurement for varying loading cases. When the load was changed, the initial battery capacity was also changed, too. This characteristics has proved by some relevant experimental results. The accuracy of the estimation has been verified in relevant experimental tests, and the results have proved that proposed method is superior.

Keywords : varying load, coulometer measurement, initial battery capacity

Table of Contents

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