

Durability Analysis of Fuel Cell by the Vehicle-Running Tests

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Fuel cell is a promising electric power source of railway vehicles in the future. And its durability is important when it is used for railway vehicles. So, we investigated five factors which influence the decreasing rate of the fuel cell's output voltage. By the running tests of a set of fuel cell vehicles on our test track, it was demonstrated that the number of times of start stop and the number of duty cycles affected the degradation of the fuel cell's performance.