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US Department of Energy Hybrid Electric Vehicle Battery and Fuel Economy Testing

Donald Karner^a, James Francfort^b

^a Electric Transportation Applications 401 South 2nd Avenue, Phoenix, AZ 85005, USA
^b Idaho National Laboratory, P.O. Box 1625, Idaho Falls, ID 83415, USA

Abstract

The Advanced Vehicle Testing Activity (AVTA), part of the U.S. Department of Energy's FreedomCAR and Vehicle Technologies Program, has conducted testing of advanced technology vehicles since August, 1995 in support of the AVTA goal to provide benchmark data for technology modeling, and research and development programs. The AVTA has tested over 200 advanced technology vehicles including full size electric vehicles, urban electric vehicles, neighborhood electric vehicles, and hydrogen internal combustion engine powered vehicles. Currently, the AVTA is conducting significant tests of hybrid electric vehicles (HEV). This testing has included all HEVs produced by major automotive manufacturers and spans over 1.3 million miles. The results of all testing are posted on the AVTA web page maintained by the Idaho National Laboratory. Through the course of this testing, the fuel economy of HEV fleets has been monitored and analyzed to determine the "real world" performance of their hybrid energy systems, particularly the battery. While the initial "real world" fuel economy of these vehicles has typically been less than that evaluated by the manufacturer and varies significantly with environmental conditions, the fuel economy and, therefore, battery performance, has remained stable over vehicle life (160,000 miles).

Key Words

Hybrid Electric Vehicle; Fuel Economy Testing

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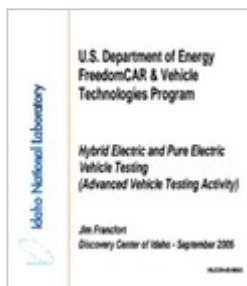
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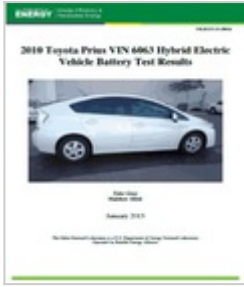
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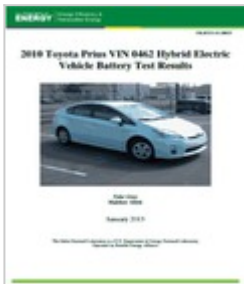
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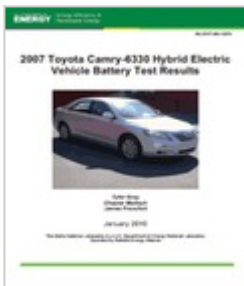
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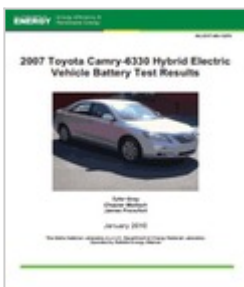
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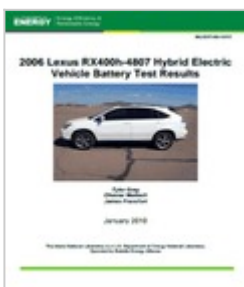
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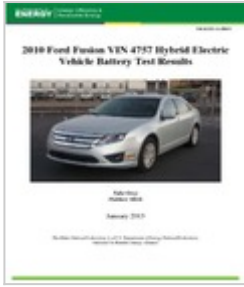
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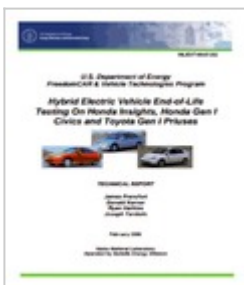
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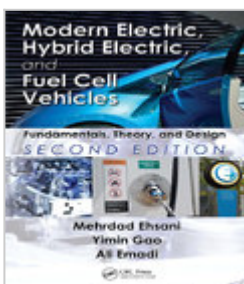
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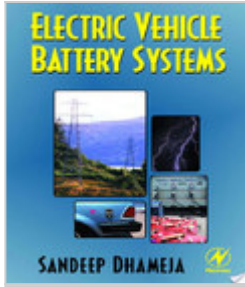
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