
Consumption Calculation Of Vehicles Using Obd Data

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Consumption Calculation Of Vehicles Using

Consumption calculation of vehicles using OBD data

Consumption calculation Consumption can be evaluated from OBD data directly from a parameter (PID) of SAEJ1979 standard [7] (or using a non-standard car manufacturer parameter) or if not available, from intake airflow sensor and air/fuel ratio sensor Vehicles that from OBD port supply directly the instantaneous consumption are not frequent, but

Consumption calculation of vehicles using OBD data

power and consumption of vehicles • OBD sensors have been validated and have good accuracies to be used • If not available on-board, airflow and air/fuel ratio can be calculated using rpm, engine Load and other parameters always available; • Models have been validated on a dynamometer chassis with different vehicles and driving cycles

Consumption calculation of vehicles using OBD data

Consumption calculation of vehicles using OBD data Adriano Alessandrini*, Francesco Filippi*, Fernando Ortenzi * *CTL, Centre For Transport and Logistics, University of Rome "La Sapienza"

Adapting the Vehicle Energy Consumption Calculation Tool ...

vehicles be evaluated on a test track while operating at constant speeds Nonetheless, government officials have indicated a desire to move to fuel-efficiency standards based on simulation modeling Specifically, there has been considerable interest in exploring the feasibility of using the Vehicle Energy Consumption Calculation Tool (VECTO)

Estimating Vehicle Fuel Consumption and Emissions Using ...

idling and cruising) and estimate the fuel consumption/emissions of vehicles in a more fine-grained way, some researchers adopted high-resolution GPS data and microscopic estimation models in their work Nikoleris et al [18] proposed a detailed estimation of fuel consumption and emissions using ...

Estimation of CO2 Emissions of Internal Combustion Engine ...

vehicles (BEV), using life-cycle assessment (LCA) In most of the current studies, CO2 emissions were calculated assuming that the region where the vehicles were used, the lifetime driving distance in that region and the CO2 emission from the battery production were fixed However, in this paper, the life

TEST PROCEDURE FOR FUEL CONSUMPTION RATE AND ...

TEST PROCEDURE FOR FUEL CONSUMPTION RATE AND EXHAUST EMISSIONS OF HEAVY-DUTY HYBRID ELECTRIC VEHICLES USING HARDWARE-IN-THE-LOOP SIMULATOR SYSTEM Kokujikan No 281 of March 16, 2007 1 Scope This test procedure shall apply to ordinary-sized motor vehicles and small-sized motor vehicles (except motor cycles (including motor cycles with

VECTO tool development: Completion of methodology to ...

launched the development of a "Vehicle Energy Consumption calculation Tool" (VECTO) VECTO simulates CO 2 emissions and fuel consumption based on vehicle longitudinal dynamics using a driver model for backward simulation of target speed cycles

Logistics Forecasting Estimates Brigade Combat Team

vehicles is conducting a one-day operation on rugged terrain In a 24-hour period, the Bradleys are expected to be at a tactical idle for 16 hours and traverse conditions for eight hours Expected fuel consumption at idle would be calculated in the following way: $14 \times 14 \text{ GPH} \times 16 = \sim 314$ gallons Expected fuel consumption during

Logistics Forecasting and Estimates in the Brigade Combat Team

of the operation Forecasters determine estimated fuel usage for each vehicle using the following formula: number of vehicles x gallons per hour consumption x time in operation CLIII bulk example: An armor company comprised of 14 M2 Bradley Fighting Vehicles (BFVs) is conducting a one-day operation on cross-country terrain

Measuring and Reporting Fuel Economy of Plug-In Hybrid ...

in providing a rating comparable to vehicles using a single mpg economy or L/100 km consumption value One approach would be to report only the fuel use of the vehicle This method captures the petroleum consumption impact, but fails to account for the ...

Nils-Olof Nylund & Kimmo Erkkilä VTT Technical Research ...

For light-duty vehicles, certification is done running complete vehicles - both emissions and fuel consumption are reported Both for the US and Europe, HD emission certification is done using stand-alone engines - the outcome is specific emission values (g/hph or g/kWh) for the engine itself tested over a certain duty cycle

Oil consumption and oil loss - MS Motorservice

vehicles and up to 05 % oil consumption for buses can be assumed Example calculation for utility vehicles A utility vehicle consumes roughly 40 litres of fuel for 100 km travelled This can be extrapolated to 400 litres Oil consumption and oil loss | 7 21 ... leaking intake systems and defective air filtering

HEV, PHEV, EV Test Standard Development and Validation

Electric Vehicles, Incl PHEVs Mike Duoba (ANL) J2841 Utility Factor Definitions for Plug-In Hybrid Electric Vehicles Using 2001 US DOT National Household Travel Survey Data Mike Duoba (ANL) J1634 Electric Vehicle Energy Consumption and Range Test Procedure (Cancelled Oct 2002) Jeff Glodich / Mike Duoba

Vehicle Inertia Impact on Fuel Consumption of Conventional ...

Vehicle Inertia Impact on Fuel Consumption of Conventional and Hybrid Electric Vehicles Using Acceleration and Coast Driving Strategy Jeongwoo Lee Abstract In the past few years, the price of petroleum based fuels, especially vehicle fuels such as gasoline and diesel, has been increasing at ...

of a Euro vehicle with CNG/H fuel

environmental performance of vehicles there were found some open issues regarding vehicles using mix of Hydrogen (H₂) and Compressed Natural Gas (CNG), in particular there were no methods for type approval of these types of vehicles using a variable mixture of H₂-CNG

Proposed Methodology to Model Carbon Dioxide Emissions ...

emissions were modeled, fuel economy and fuel consumption estimates were derived using a carbon balance methodology During the last decade, Corporate Average Fuel Economy (CAFE) regulations were adopted such that the average fuel economy of vehicles increased from 180 miles per gallon to 275 miles per gallon As a consequence, vehicles

Fuel Usage and Fuel Consumption Monitoring

Fuel Usage and Fuel Consumption Monitoring 1 Introduction Fuel (Gas) pricing growing and growing and reaching record levels Yours vehicle fleet (special machinery) require more and more money on fuel costs Your earnings slowly, but steadily declining You do not have the opportunity to influence the growth of fuel prices, but to reduce the

Fuel consumption standards for heavy-duty vehicles in India

1 and 2 This stands in contrast to the fuel consumption and greenhouse gas standards in the United States and Canada, which are based on sales-weighted averaging For evaluating the performance of the vehicles, manufacturers are required to use a constant speed fuel consumption (CSFC) driving cycle This means that the fuel

Energy Efficiency of Electric Vehicles

the criterion of minimum energy consumption By combining these technologies, concepts and their improvements, we are slowly going towards energy-efficient vehicles which will greatly simplify our lives in the future 94 New Generation of Electric Vehicles