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Read Book 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 ”

Consumption calculation of vehicles using OBD data

All the vehicles show a difference between measurements and models never greater than 4% so this can be an accurate methodology to calculate the power and consumption of vehicles during their real use.

Keywords: Instantaneous Vehicle Consumption, Engine Power, OBD, On-Board Data Collection.

Consumption calculation of vehicles using OBD data ...

- OBD data can be used as input to calculate instantaneous 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

Bus and coach AdBlue® consumption. Bus consumption of AdBlue® usually equates to around 5% of diesel consumption, although the amount used will be dependent on the mileage of the vehicle: generally, city buses will use 20 to 30 litres each month, compared to 40 litres per month for buses operating over longer, cross-country routes. Learn how to solve problems with AdBlue® or view our ultimate guide.

AdBlue® calculator: work out how much your vehicle needs ...

To calculate the fuel consumption of vehicles, the intake airflow value is needed: the intake airflow sensors are usually found in diesel vehicles and in some spark ignition vehicles. Figure 1 Intake airflow sensor of a Citroen C3 1.4 HDi (Diesel engine) compared with Horiba OBS 1300 exhaust flow sensor.

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Consumption calculation of vehicles using OBD data

MPG stands for miles per gallon and, as this name suggests, it 's the number of miles that a car can cover on a gallon of fuel. However, the actual figure will vary dramatically depending on traffic...

MPG Calculator: What 's your car 's True MPG? | What Car?

The mileage calculator is easy to use. Simply add your current location - postcode or place - into the A category, and details of your destination into the B category. The overall driving distance will be displayed in miles and kilometres, and the driving time will also be shown.

Mileage Calculator | RAC Fuel Cost Calculator

Vehicle Energy Consumption calculation TOol - VECTO Policy Simulation Tool for Heavy Duty vehicles (HDVs) VECTO is the new simulation tool that has been developed by the European Commission and shall be used for determining CO₂ emissions and Fuel Consumption from Heavy Duty Vehicles (trucks, buses and coaches) with a Gross Vehicle Weight above 3500kg.

Vehicle Energy Consumption calculation TOol - VECTO ...

the consumption of the vehicle depends on its range, the capacity of its battery and the type of driving. However, it can be estimated that the cost in electricity for one hundred kilometres is well below € 4 (or even € 3 for certain vehicles). So it is lower than that of internal combustion engines for the same distance.

How much power does an electric car use? – Energuid

The car, in this case, has an average fuel consumption of 7.625 liters for this period of time. Additionally, if you want to find out how much liters of fuel the car has spent in this example: 4600 kilometers/100 (this is liters per 100 kilometers)=46.46 x 7.625 litres (average consumption)=350.75 liters of fuel.

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HOW TO CALCULATE FUEL CONSUMPTION IN CARS?

Divide mileage by fuel usage to see your car's fuel consumption. This tells you how many miles you drove per gallon of gas. For example, if you drove 335 miles before refueling, and you filled your car up with 12 gallons of gas, your fuel consumption was 27.9 miles per gallon, or mpg ($335 \text{ miles} / 12 \text{ gallon} = 27.9 \text{ mpg}$).

3 Ways to Calculate Fuel Consumption - wikiHow

To calculate how much fuel you'll need for a given journey, please provide the distance in miles you will be covering on your journey, and the estimated MPG of your vehicle. Real-Life Miles Per Gallon To work out what MPG you are really getting, please provide the cost of the fuel, how much you spent on the fuel, and how far it took you.

Fuel Calculators » Fuel-Economy.co.uk

Calculate vehicle tax rates Find out the tax rate for all vehicle types. Car vehicle tax rates are based on either engine size or fuel type and CO2 emissions, depending on when the vehicle was ...

Calculate vehicle tax rates - GOV.UK

This cheatsheet shows all electric vehicles sorted by energy consumption. The cheatsheet is made as a quick reference, click on a vehicle for all details. Data is based on real-world values. The average is corrected for multiple versions of the same model. * = data for upcoming cars and might be based on estimates.

Energy consumption of full electric vehicles cheatsheet ...

Just put in your car reg and we'll give you an estimate of its fuel efficiency (mpg). Then tell us your annual mileage and how much fuel costs per litre near you (the UK average for petrol is 111.4p while diesel is 116.3p*). The fuel cost calculator will then work out just how much you're spending on petrol or diesel each week, month and year. It's as easy as that!

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