

Consumption calculation of vehicles using OBD data

Adriano Alessandrini*, Francesco Filippi*, Fernando Ortenzi *

*CTL, Centre For Transport and Logistics, University of Rome "La Sapienza"

Abstract

The European type approval procedure, based on a fixed driving cycle for all vehicles, is not representative of their real on-road usage: the driving style and its influence on consumption and emissions cannot be neglected and their real-world environmental impact is not simple to measure.

The objective of this work is to develop a methodology to calculate in real-time the energy and environmental impact of spark ignition and diesel vehicles.

An on-board instrumentation capable to communicate with the electronic system of the vehicle (OBD/CAN) have been developed to collect all the sensor data available (rpm, vehicle speed, engine load, lambda sensor voltage, catalyst temperature, intake airflow, pressure and temperature etc.) and use them as input for power and consumption models.

The models have been applied on several vehicles and validated on a dynamometer chassis running NEDC and ARTEMIS cycles. Consumption has been measured with the CVS and with a portable emission analyzer (HORIBA OBS-1300).

A calibration procedure has been also developed in which 3 tests on a dynamometer chassis are needed: the maximum power curve, the curve at idle and a curve at fixed rpm varying the engine load. For spark ignition engines, an additional test should be needed to calibrate a coefficient that takes into account of the enrichment during accelerator pedal gradients, but this coefficient is not much variable for different vehicles (~10).

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

Anthony S. Fauci



Consumption Calculation Of Vehicles Using Obd Data:

The book delves into Consumption Calculation Of Vehicles Using Obd Data. Consumption Calculation Of Vehicles Using Obd Data is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Consumption Calculation Of Vehicles Using Obd Data, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Consumption Calculation Of Vehicles Using Obd Data
 - Chapter 2: Essential Elements of Consumption Calculation Of Vehicles Using Obd Data
 - Chapter 3: Consumption Calculation Of Vehicles Using Obd Data in Everyday Life
 - Chapter 4: Consumption Calculation Of Vehicles Using Obd Data in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Consumption Calculation Of Vehicles Using Obd Data. The first chapter will explore what Consumption Calculation Of Vehicles Using Obd Data is, why Consumption Calculation Of Vehicles Using Obd Data is vital, and how to effectively learn about Consumption Calculation Of Vehicles Using Obd Data.
 3. In chapter 2, the author will delve into the foundational concepts of Consumption Calculation Of Vehicles Using Obd Data. The second chapter will elucidate the essential principles that need to be understood to grasp Consumption Calculation Of Vehicles Using Obd Data in its entirety.
 4. In chapter 3, this book will examine the practical applications of Consumption Calculation Of Vehicles Using Obd Data in daily life. This chapter will showcase real-world examples of how Consumption Calculation Of Vehicles Using Obd Data can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Consumption Calculation Of Vehicles Using Obd Data. This chapter will summarize the key points that have been discussed throughout the book.
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