

SAE BOOK

OBD and CAN data acquisition for light-duty vehicles

SAE has published a book that guides readers on how to acquire and interpret data from the CAN in-vehicle network of light-duty (LD) vehicles.



The “Data Acquisition from LD Vehicles Using OBD and CAN” book is authored by Eric Walter and Richard Walter. It addresses product engineers, service technicians, fleet managers, and all interested in acquiring data effectively from the SAE J1939-equipped vehicles.

Modern vehicles have multiple electronic control units (ECU) to control various subsystems such as the engine, brakes, steering, air conditioning, and infotainment. These ECUs are networked together to share information directly with each other. This in-vehicle network provides a data opportunity for improved maintenance, fleet management, warranty and legal issues, reliability, and accident reconstruction.

Topics featured in this book include: calculated fuel economy, duty cycle analysis, and capturing intermittent faults. The authors provide a roadmap for the data acquisition user. In addition, they give a description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family. The book has the product code R-458 and is published under ISBN 978-0-7680-8351-4.

Readers of this book learn how to determine what data is available on the vehicle's network, acquire messages, and convert them to scaled engineering parameters (Photo: SAE)

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