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Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (333 p.)
Collana	Green energy and technology, , 1865-3529
Disciplina	629.25
Soggetti	Motor vehicles - Fuel consumption Greenhouse gas mitigation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	From the Contents: Statistics of road vehicles -- Development state of the art and vehicle technology -- Improvement of technology in road vehicles -- Propulsion system -- Combustion engines -- Spark ignition engines -- Self ignition engines -- Diesel engines for light commercial vehicles -- Future direction of development -- Vehicle electrical equipment and vehicle electronics -- OBD in vehicles with spark ignition engine -- OBD in vehicles with self ignition engine -- Characteristic properties of fuels -- Determination of fuel consumption in vehicles -- Emissions analysers -- Quality control of vehicles -- Introduction of new fuels -- Improvements in the traffic organization -- Changes in the urban environment -- Education of Eco-driving -- Role of the road vehicle industry for the social conditions in the society -- Air transport -- Statistics of airplanes -- Airframe weight reduction -- Aerodynamics in airplanes -- Propulsion system -- Certification in air traffic -- Maintenance of airplanes -- Safety and responsibility by fuel planning in the aviation -- Navigations -- Alternative fuels to kerosene -- Reduction of the climate efficiency of the air traffic -- Emissions from jet engines near airports -- Decreasing of costs.

Within all areas of transportation, solutions for economical and environmentally friendly technology are being examined. Fuel consumption, combustion processes, control and limitation of pollutants in the exhaust gas are technological problems, for which guidelines like 98/69/EC and 99/96 determine the processes for the reduction of fuel consumption and exhaust gas emissions. Apart from technological solutions, the consequences of international legislation and their effects on environmental and climate protection in the area of the transportation are discussed.

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