

1. Record Nr.	UNINA9910720571803321
Titolo	Alternative Fuels for Transportation // edited by Arumugam S. Ramadhas
Pubbl/distr/stampa	Boca Raton, FL : , : Taylor & Francis, , 2010
Descrizione fisica	1 online resource (xvii, 423 pages)
Collana	Mechanical engineering series
Disciplina	629.229
Soggetti	Alternative fuel vehicles Spark ignition engines - Alternative fuels
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Fuels and Trends. Vegetable Oils. Biodiesel. Methanol. Ethanol. Dimethyl Ether. Liquefied Petroleum Gas. Compressed Natural Gas. Hydrogen. Electric Vehicles. Fuel Cells. Hybrid Vehicles. Future Fuels. Appendix. Index.
Sommario/riassunto	Exploring how to counteract the world's energy insecurity and environmental pollution, this volume covers the production methods, properties, storage, engine tests, system modification, transportation and distribution, economics, safety aspects, applications, and material compatibility of alternative fuels. The esteemed editor highlights the importance of moving toward alternative fuels and the problems and environmental impact of depending on petroleum products. Each self-contained chapter focuses on a particular fuel source, including vegetable oils, biodiesel, methanol, ethanol, dimethyl ether, liquefied petroleum gas, natural gas, hydrogen, electric, fuel cells, and fuel from nonfood crops.