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Autore	Schobert Harold H. <1943->
Titolo	Chemistry of fossil fuels and biofuels / / Harold Schobert [[electronic resource]]
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ISBN	1-107-23254-6 1-139-60952-1 1-62870-514-0 1-139-61138-0 1-107-25316-0 1-139-62068-1 1-283-94364-6 1-139-62440-7 0-511-84418-2 1-139-61510-6
Descrizione fisica	1 online resource (xix, 480 pages) : digital, PDF file(s)
Collana	Cambridge series in chemical engineering
Disciplina	553.2
Soggetti	Fossil fuels - Analysis Biomass energy Energy crops - Composition Fuelwood crops - Composition
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
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Nota di contenuto	Machine generated contents note: 1. Fuels and the global carbon cycle; 2. Catalysis, enzymes and proteins; 3. Photosynthesis and the formation of polysaccharides; 4. Ethanol; 5. Plant oils and biodiesel; 6. Composition and reactions of wood; 7. Reactive intermediates; 8. Formation of fossil fuels; 9. Structure-property relationships among hydrocarbons; 10. Composition, properties and processing of natural gas; 11. Composition, properties and classification of petroleum; 12. Petroleum distillation; 13. Heterogeneous catalysis; 14. Catalytic routes to gasoline; 15. Middle distillate fuels; 16. Thermal processing in refining; 17. Composition, properties and classification of coals; 18.

The inorganic chemistry of coals; 19. Production of synthetic gas; 20. Gas treatment and shifting; 21. Uses of synthetic gas; 22. Direct production of liquid fuels from coal pyrolysis; 23. Carbonization and coking of coal; 24. Carbon products from fossil and biofuels; 25. Carbon dioxide.

Sommario/riassunto

Focusing on today's major fuel resources - ethanol, biodiesel, wood, natural gas, petroleum products and coal - this book discusses the formation, composition and properties of the fuels, and the ways in which they are processed for commercial use. It examines the origin of fuels through natural processes such as photosynthesis and the geological transformation of ancient plant material; the relationships between their composition, molecular structures and physical properties; and the various processes by which they are converted or refined into the fuel products appearing on today's market. Fundamental chemical aspects such as catalysis and the behaviour of reactive intermediates are presented and global warming and anthropogenic carbon dioxide emissions are also discussed. The book is ideal for graduate students in energy engineering, chemical engineering, mechanical engineering and chemistry, as well as professional scientists and engineers.

2. Record Nr.	UNIORUON00289030
Autore	KOPPEN, Erwin
Titolo	Dekadenter Wagnerismus : Studien zur europäischen Literatur des Fin de siècle / Erwin Koppen
Pubbl/distr/stampa	Berlin; New York, : Walter de Gruyter, 1973
ISBN	31-10-04388-2
Descrizione fisica	386 p. ; 24 cm.
Disciplina	830.09
Soggetti	DECADENTISMO Letteratura - Storia - Sec. 19.-20 WAGNER RICHARD
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia