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Descrizione fisica	1 online resource (1325 p.)
Disciplina	662/.6622
Soggetti	Fischer-Tropsch process Gases - Liquefaction Synthetic fuels - Refining
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction. Fischer-Tropsch facilities at a glance -- Refining and refineries at a glance -- Production of Fischer-Tropsch syncrude. Synthesis gas production, cleaning, and conditioning -- Fischer-Tropsch synthesis -- Fischer-Tropsch gas loop -- Industrial Fischer-Tropsch facilities. German Fischer-Tropsch facilities -- American hydrocol facility -- Sasol 1 facility -- Sasol 2 and 3 facilities -- Mossgas facility -- Shell middle distillate synthesis (SMDS) facilities -- Oryx and Escravos gas-to-liquids facilities -- Synthetic transportation fuels. Motor-gasoline -- Jet fuel -- Diesel fuel -- Refining technology. Refining technology selection -- Dehydration, etherification, and hydration -- Isomerization -- Oligomerization -- Aromatic alkylation -- Cracking -- Reforming and aromatization -- Chemical technologies -- Refinery design. Principles of refinery design -- Motor-gasoline refining -- Jet fuel refining -- Diesel fuel refining -- Chemicals and lubricant refining.
Sommario/riassunto	The Fischer-Tropsch process is gaining recognition again due to the world-wide increase in energy needs and decrease in oil availability. The increasing interest in utilizing biomass as a potential renewable feedstock in energy generation is further supporting this development.

The book covers the production and refining of Fischer-Tropsch syncrude to fuels and chemicals systematically and comprehensively, presenting a wealth of new knowledge and material. As such, it deals extensively with aspects of engineering, chemistry and catalysis. This handbook and ready reference adopts a fundamenta
