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Soggetti	Oil sands Bitumen - Refining
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Density and phase behaviour -- Transport and thermal properties -- Chemical composition -- Upgrading reactions and kinetics -- Marketing of bitumen products -- Production of bitumen and heavy oil -- Overview of upgrading processing and economics -- Separation processes -- Thermal cracking and coking processes -- Residue hydroconversion processes -- Hydrotreating processes -- Hydrogen production and gas purification processes -- Appendix A: Glossary and list of acronyms -- Appendix B: Assay data for bitumen and upgraded products.
Sommario/riassunto	"The high demand for quality petroleum products necessitates ongoing innovation in the science and engineering underlying oilsands extraction and upgrading. Beginning with a thorough grounding in the composition, fluid properties, reaction behaviour, and economics of bitumen and heavy oil, Murray Gray then delves into current processing technologies, particularly those used at full commercial scale. The tables of data on composition, yield, and behaviour of oilsands bitumen and heavy oil fractions are extensive. Though the focus is on bitumen from Alberta's oilsands-the largest resource in the world-the science applies to upgrading of heavy oil and petroleum residue feeds worldwide. Upgrading Oilsands Bitumen and Heavy Oil lays out the current best practice for engineers and scientists in the oilsands and

refining industries, government personnel, academics, and students."--
