

1. Record Nr.	UNINA9910781142703321
Autore	Speight James G
Titolo	Enhanced recovery methods for heavy oil and tar sands [[electronic resource] /] / James G. Speight
Pubbl/distr/stampa	Houston, TX, : Gulf Pub. Co., c2009
ISBN	0-12-799988-4 1-61583-155-X
Descrizione fisica	1 online resource (369 p.)
Disciplina	622/.33827
Soggetti	Enhanced oil recovery Petroleum Oil sands
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	Front Cover; Enhanced Recovery Methods for Heavy Oil and Tar Sands; Copyright Page; Table of Contents; LIST OF FIGURES; LIST OF TABLES; PREFACE; CHAPTER 1. DEFINITIONS; 1.1 HISTORY; 1.2 PETROLEUM; 1.3 HEAVY OIL; 1.4 TAR SAND BITUMEN; 1.5 VALIDITY OF THE DEFINITIONS; 1.6 CONCLUSIONS; 1.7 REFERENCES; CHAPTER 2. ORIGIN AND OCCURRENCE; 2.1 ORIGIN OF PETROLEUM AND HEAVY OIL; 2.2 RESERVOIRS; 2.3 RESERVES; 2.4 PRODUCTION; 2.5 OIL PRICING; 2.6 REFERENCES; CHAPTER 3. RESERVOIRS AND RESERVOIR FLUIDS; 3.1 RESERVOIRS; 3.2 CLASSES OF FLUIDS; 3.3 EVALUATION OF RESERVOIR FLUIDS 3.4 PHYSICAL (BULK) COMPOSITION AND MOLECULAR WEIGHT 3.5 RESERVOIR EVALUATION; 3.6 REFERENCES; CHAPTER 4. PROPERTIES; 4.1 PHYSICAL PROPERTIES; 4.2 THERMAL PROPERTIES; 4.3 METALS CONTENT; 4.4 REFERENCES; CHAPTER 5. EXPLORATION AND GENERAL METHODS FOR OIL RECOVERY; 5.1 EXPLORATION; 5.2 PRIMARY RECOVERY (NATURAL) METHODS; 5.3 SECONDARY RECOVERY; 5.4 ENHANCED OIL RECOVERY; 5.5 REFERENCES; CHAPTER 6. NONTHERMAL METHODS OF RECOVERY; 6.1 PRIMARY RECOVERY (NATURAL) METHODS; 6.2 SECONDARY RECOVERY METHODS; 6.3 ENHANCED OIL RECOVERY METHODS; 6.4 OIL MINING; 6.5 REFERENCES CHAPTER 7. THERMAL METHODS OF RECOVERY 7.1 HOT-FLUID

INJECTION; 7.2 STEAM-BASED METHODS; 7.3 IN SITU COMBUSTION PROCESSES; 7.4 OTHER PROCESSES; 7.5 IN SITU UPGRADING; 7.6 REFERENCES; CHAPTER 8. UPGRADING HEAVY OIL; 8.1 SURFACE UPGRADING; 8.2 IN SITU UPGRADING; 8.3 REFERENCES; APPENDIX A: CONVERSION FACTORS; GLOSSARY; INDEX

Sommario/riassunto

Recent oil price fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand/bitumen resources. With conventional production steadily declining, advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer. A practical guide on heavy-oil related recovery methods is essential for all involved in heavy oil production. To feed this demand, James Speight, a well-respected scientist and author, provides a must-read for all scientists, engineers and technologists that are involved in production enha
