1. Record Nr. UNINA9910254008403321

Titolo	Physics of Petroleum Reservoirs / / edited by Xuetao Hu, Shuyong Hu, Fayang Jin, Su Huang
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2017
ISBN	3-662-55026-1
Edizione	[2nd ed. 2017.]
Descrizione fisica	1 online resource (516 pages) : illustrations, tables
Collana	Springer Geophysics, , 2364-9119
Disciplina	622.3382
Soggetti	Geophysics Fossil fuels Geotechnical engineering Geophysics/Geodesy Fossil Fuels (incl. Carbon Capture) Geotechnical Engineering & Applied Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	The Physical Properties of Reservoir Rocks -- The Physical Properties of Reservoir Fluids -- Flow Mechanism of Multiphase Fluid Through Porous Media -- Principles of Enhanced Oil Recovery.
Sommario/riassunto	This book introduces in detail the physical and chemical phenomena and processes during petroleum production. It covers the properties of reservoir rocks and fluids, the related methods of determining these properties, the phase behavior of hydrocarbon mixtures, the microscopic mechanism of fluids flowing through reservoir rocks, and the primary theories and methods of enhancing oil recovery. It also involves the up-to-date progress in these areas. It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation.