

Thermodynamics Of Hydrocarbon Reservoirs

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Handbook of Petroleum Geoscience
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Fracture and In-situ Stress Characterization of Hydrocarbon Reservoirs
Thermodynamics of Hydrocarbon Reservoirs
Deep-Buried Large Hydrocarbon Fields Onshore China: Formation and Distribution
Physics of Petroleum Reservoirs
Characterization of Conventional and Unconventional Hydrocarbon Reservoirs
Hydrocarbon Reservoir and Well Performance
Lumped-parameter Models of Hydrocarbon Reservoirs
Object-based Modelling of Hydrocarbon Reservoirs
Fundamentals of Gas Reservoir Engineering
Principles of Hydrocarbon Reservoir Simulation
A geologic and engineering analysis of hydrocarbon reservoirs, East Chocolate Bayou Field, Brazoria County, Texas
Factors Controlling Porosity and Permeability of Hydrocarbon Reservoirs in Lower Tertiary Sandstones Along the Texas Gulf Coast
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Reservoirs Fundamentals of Gas Reservoir Engineering Principles of Hydrocarbon Reservoir Simulation A geologic and engineering analysis of hydrocarbon reservoirs, East Chocolate Bayou Field, Brazoria County, Texas Factors Controlling Porosity and Permeability of Hydrocarbon Reservoirs in Lower Tertiary Sandstones Along the Texas Gulf Coast Abbas Firoozabadi Paul Mitchell Harris Jing Du Ian D. Bryant Soumyajit Mukherjee Jackie Yeh Beihong Ge Wayne M. Ahr Geological Society of London Abbas Firoozabadi Suyun Hu Xuetao Hu Yuming Liu J.H. Nind Ellis A. Monash A.G. Chessa J. Hagoort Gordon W. Thomas Gregory Albert Hargreaves R. G. Loucks

publisher s note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product modern look at the thermodynamics of hydrocarbon reservoirs this brilliant original work offers novel formulations of thermodynamic principles for hydrocarbon reservoirs the book is packed with valuable step by step derivations for retrograde phenomena in capillaries diffusion and convection stability and criticality in mixtures precipitation from complex mixtures and numerous examples that show in detail how to calculate and apply concepts using the most contemporary techniques the book is not only a valuable reference for petroleum and chemical engineers but can be used by engineers and scientists in different disciplines

reservoirs described in this volume are located in the middle east asia west africa north and south america the authors explore historical and alternative approaches to reservoir description characterization and management as well as examining appropriate levels and timing of data gathering technology applications evaluation techniques and management practices in various stages in the life of individual development projects the giant fields discussed address issues important to reservoir description characterization and management from both geologic engineering perspectives

the geological modelling of hydrocarbon reservoirs and outcrop analogues is a collection of 15 selected papers taken from the symposium of the same name which formed part of the ias congress of 1990 held in nottingham uk recent technological advances and the ever increasing demand for maximising recovery from existing oil and gas fields has led to an upsurge of interest at both academic and industrial levels in reservoir characterization and quantitative modelling of physical rock properties in 3 d inter well space synthesizing both industrial and academic research and

integrating sedimentology petroleum geology geostatistic and geomathematics this volume is a state of the art presentation of approaches to quantifying geology in order to give better input to 3 d numerical reservoir modelling methods it is the first volume to highlight the necessary interface with academic and oil industry geology by showing how academic research can significantly support the mathematical modelling work of reservoir engineers in industry and contributions to the volume come from an expert international team comprised of university government and international oil industry scientists

handbook of petroleum geoscience this reference brings together the latest industrial updates and research advances in regional tectonics and geomechanics each chapter is based upon an in depth case study from a particular region highlighting core concepts and themes as well as regional variations key topics discussed in the book are drilling solutions from the kutch offshore basin geophysical studies from a gas field in bangladesh exploring himalayan terrain in india tectonics and exploration of the persian gulf basin unconventional gas reservoirs in the bohemian massif this book is an invaluable industry resource for professionals and academics working in and studying the fields of petroleum geoscience and tectonics

an accessible resource covering the fundamentals of carbonate reservoir engineering includes discussions on how where and why carbonate are formed plus reviews of basic sedimentological and stratigraphic principles to explain carbonate platform characteristics and stratigraphic relationships offers a new genetic classification of carbonate porosity that is especially useful in predicting spatial distribution of pore networks

publisher s note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product modern look at the thermodynamics of hydrocarbon reservoirs this brilliant original work offers novel formulations of thermodynamic principles for hydrocarbon reservoirs the book is packed with valuable step by step derivations for retrograde phenomena in capillaries diffusion and convection stability and criticality in mixtures precipitation from complex mixtures and numerous examples that show in detail how to calculate and apply concepts using the most contemporary techniques the book is not only a valuable reference for petroleum and chemical engineers but can be used by engineers and scientists in different disciplines

this book analyzes the formation and evolution of the giant hydrocarbon reservoirs based on major basins onshore china it discusses exploration and research advantages of major basins in china such as sichuan tarim and ordos basins and also systematically analyzes and summarizes the formation conditions distribution rules and main controlling factors of deep oil and gas fields on this basis it forecasts the exploration prospect of china s onshore deep oil and gas providing theoretical guidance and technical support for deep oil and gas exploration breakthrough and large scale reserves growth this book focuses on the analysis and discussion of hydrocarbon generation mechanism of deep paleo source rocks discusses the accumulation rules of cross structural reservoir formation and oil gas enrichment in ancient strata the combination of gypsum salt rocks and carbonate rocks the potential of oil and gas accumulation under salt the main controlling factors and distribution rules of deep oil and gas fields and preliminarily grasps the geological understanding of the formation and distribution of deep large oil and gas fields namely 1abundant hydrocarbon supplied by two types of source kitchens 2three large scale lithologic reservoir rocks 3hydrocarbon accumulation controlled by three paleoes paleouplift paleoplatform margin and paleofaults and 4reservoir formation across major tectonic periods the book serves as a guidance for both researchers and students majoring in petroleum geology and other related fields

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

this special issue extensively explores various aspects ranging from the characterization techniques of conventional and unconventional hydrocarbon reservoirs to the heterogeneity of reservoirs numerical simulation machine learning and the evaluation and optimization of reservoir development these studies demonstrate the continuous progress in oil and gas exploration and development technologies and highlight the importance of interdisciplinary integration high precision exploration techniques intelligent oilfield management and the in depth development of unconventional

oil and gas resources furthermore the special issue focuses on key issues such as the quantitative assessment of oil and gas reservoirs water flooding efficiency and reservoir connectivity which are crucial for optimizing the development strategies of oil and gas reservoirs the application of high resolution seismic imaging technology and multi physical field coupling simulation methods indicates that future exploration technologies will develop toward higher precision and more in depth analysis looking to the future the special issue will emphasize the integration of interdisciplinary technologies especially the combination of geology geophysics chemistry and information technology to drive innovation in oil and gas exploration and development this approach aims to achieve a more accurate representation and a deeper understanding of hydrocarbon reservoirs

the cost effective recovery of oil and gas depends on an understanding of both reservoir and petroleum engineering yet these are increasingly becoming self contained fields hydrocarbon reservoir and well performance brings the two subjects together for the first time and by explaining both fundamental concepts and actual practice helps in understanding their interrelation

gas reservoir engineering is the branch of reservoir engineering that deals exclusively with reservoirs of non associated gas the prime purpose of reservoir engineering is the formulation of development and production plans that will result in maximum recovery for a given set of economic environmental and technical constraints this is not a one time activity but needs continual updating throughout the production life of a reservoir the objective of this book is to bring together the fundamentals of gas reservoir engineering in a coherent and systematic manner it is intended both for students who are new to the subject and practitioners who may use this book as a reference and refresher each chapter can be read independently of the others and includes several completely worked exercises these exercises are an integral part of the book they not only illustrate the theory but also show how to apply the theory to practical problems chapters 2 3 and 4 are concerned with the basic physical properties of reservoirs and natural gas fluids insofar as of relevance to gas reservoir engineering chapter 5 deals with the volumetric estimation of hydrocarbon fluids in place and the recoverable hydrocarbon reserves of gas reservoirs chapter 6 presents the material balance method a classic method for the analysis of reservoir performance based on the law of conservation of mass chapters 7 10 discuss various aspects of the flow of natural gas in the reservoir and the

wellbore single phase flow in porous and permeable media gaswell testing methods based on single phase flow principles the mechanics of gas flow in the wellbore the problem of water coning the production of water along with the gas in gas reservoirs with underlaying bottom water chapter 11 discusses natural depletion the common development option for dry and wet gas reservoirs the development of gas condensate reservoirs by gas injection is treated in chapter 12 appendix a lists the commonly used units in gas reservoir engineering along with their conversion factors appendix b includes some special physical and mathematical constants that are of particular interest in gas reservoir engineering finally appendix c contains the physical properties of some common natural gas components

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