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# carbonate reservoir characterization: a geologic - engineering analysis, part I

G.V. CHILINGARIAN

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# Carbonate Reservoir Characterization A Geologic Engineering Analysis

**Christian Drosten**



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Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part I G.C. Dominguez, F. Samaniego V., 1992-01-17 This book integrates those critical geologic aspects of reservoir formation and occurrence with engineering aspects of reservoirs and presents a comprehensive treatment of the geometry porosity and permeability evolution and producing characteristics of carbonate reservoirs The three major themes discussed are the geometry of carbonate reservoirs and relationship to original depositional facies distributions the origin and types of porosity and permeability systems in carbonate reservoirs and their relationship to post depositional diagenesis the relationship between depositional and diagenetic facies and producing characteristics of carbonate reservoirs and the synergistic geologic engineering approach to the exploitation of carbonate reservoirs The intention of the volume is to fully acquaint professional petroleum geologists and engineers with an integrated geologic and engineering approach to the subject As such it presents a unique critical appraisal of the complex parameters that affect the recovery of hydrocarbon resources from carbonate rocks The book may also be used as a text in petroleum geology and engineering courses at the advanced undergraduate and graduate levels *Carbonate Reservoir Characterization* George Varos Chilingarian, S. J. Mazzullo, Herman H. Rieke, 1992

*Carbonate Reservoir Characterization* George V. Chilingar, 1996 This second volume on carbonate reservoirs completes the two volume treatise on this important topic for petroleum engineers and geologists Together the volumes form a complete modern reference to the properties and production behaviour of carbonate petroleum reservoirs The book contains valuable glossaries to geologic and petroleum engineering terms providing exact definitions for writers and speakers Lecturers will find a useful appendix devoted to questions and problems that can be used for teaching assignments as well as a guide for lecture development In addition there is a chapter devoted to core analysis of carbonate rocks which is ideal for laboratory instruction Managers and production engineers will find a review of the latest laboratory technology for carbonate formation evaluation in the chapter on core analysis The modern classification of carbonate rocks is presented with petroleum production performance and overall characterization using seismic and well test analyses Separate chapters are devoted to the important naturally fractured and chalk reservoirs Throughout the book the emphasis is on formation evaluation and performance This two volume work brings together the wide variety of approaches to the study of carbonate reservoirs and will therefore be of value to managers engineers geologists and lecturers **Carbonate Reservoir**

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Erle C. Donaldson,Djebbar Tiab,2004-01-24 The petroleum geologist and engineer must have a working knowledge of petrophysics in order to find oil reservoirs devise the best plan for getting it out of the ground then start drilling This book offers the engineer and geologist a manual to accomplish these goals providing much needed calculations and formulas on fluid flow rock properties and many other topics that are encountered every day New updated material covers topics that have emerged in the petrochemical industry since 1997 Contains information and calculations that the engineer or geologist must use in daily activities to find oil and devise a plan to get it out of the ground Filled with problems and solutions perfect for use in undergraduate graduate or professional courses Covers real life problems and cases for the practicing engineer

**Applied Geothermics for Petroleum Engineers** I.M. Kutasov,1999-05-24 The purpose of Applied Geothermics for Petroleum Engineers is to present in a clear and concise form methods of utilizing the data of temperature surveys in deep boreholes as well as the results of field laboratory and analytical investigations in geothermics to a wide audience Although some aspects of the subject of this book have been discussed in several previous books and numerous papers Applied

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**Hydrocarbon Exploration and Production** Frank Jahn, 1998-03-13  
This book on hydrocarbon exploration and production is the first volume in the series *Developments in Petroleum Science*. The chapters are: The Field Life Cycle, Exploration, Drilling, Engineering, Safety, and The Environment, Reservoir Description, Volumetric Estimation, Field Appraisal, Reservoir Dynamic Behaviour, Well Dynamic Behaviour, Surface Facilities, Production Operations and Maintenance, Project and Contract Management, Petroleum Economics, Managing the Producing Field, and Decommissioning.

*Geology and Geochemistry of Oil and Gas* L. Buryakovskiy, N.A. Eremenko, M.V. Gorfunkel, G.V. Chilingarian, 2005-10-13  
This book discusses the progress that is being made through innovations in instrumental measurements of geologic and geochemical systems and their study using modern mathematical modeling. It covers the systems approach to understanding sedimentary rocks and their role in evolution and containment of subsurface fluids. Fundamental aspects of petroleum geology and geochemistry, generation, migration, accumulation, evaluation, and production of hydrocarbons are discussed with worldwide examples. Various physical and chemical properties of subsurface waters, crude oils, and natural gases are described, which is especially important to production engineering. Among various properties of liquid and gaseous hydrocarbons, the most important are wettability affecting production characteristics and ultimate recovery, relative permeability affecting reservoir fluid flow to the production wells, density differences between immiscible fluids which affects gravity drainage, viscosity of subsurface fluids affecting the relative mobility of each fluid, and fluid chemistry which affects the absorption, ultimate recovery, and monetary value of produced hydrocarbons. Discussion of the formation and accumulation of hydrocarbons includes: 1) the changes in the chemical composition of hydrocarbons that originate from the debris of living plants and organisms to form crude oil and natural gas; 2) the origin of hydrocarbons in different areas of a single reservoir; 3) the conditions which determine the distribution of water, oil, and gas in the reservoir; 4) the migration of subsurface fluids until they eventually accumulate in isolated traps; 5) discussion of the traps as a function of sedimentary geology and tectonics. This is based on the systems approach to the specific geologic and geochemical systems using analytical and statistical principles and examples of modern mathematical modeling of static and dynamic systems. Discusses fundamental aspects of petroleum geology and geochemistry and generation, migration, accumulation, evaluation.

and production of hydrocarbons Presents a systems approach to the specific geologic and geochemical systems

**Carbonate Reservoir Characterization**, 2015-01-21 Candidates for this course are recommended to attend the following 1 A course for carbonate reservoir characterization due its sever heterogeneity 2 Surface geological field trips for carbonate exposures 3 To visit sites of recent carbonate reefs preferably by a sub marine glass boat to observe the variation in reef distribution and growth within the same locality

*ENSCO* Carolyn Barta, 2008-12-01 Colorful and masterfully written Carolyn Barta captures the impressive history of one of the most renowned offshore drilling companies in the world *ENSCO The First Twenty Years* tells the brilliant tale of a company that legendary founder Carl Thorne originated from piles of rust and leftover assets into a premium thriving and successful enterprise for the worldwide oil and gas industry With forwards from acclaimed author Matthew Simmons and former Governor of Texas and SEDCO founder Bill Clements this must read for all energy historians is a true story of how entrepreneurship will prevail when you have determined people and the right leader

*Integrated Flow Modeling* John Fanchi, 2000-11-23 *Integrated Flow Modeling* presents the formulation development and application of an integrated flow simulator IFLO Integrated flow models make it possible to work directly with seismically generated data at any time during the life of the reservoir An integrated flow model combines a traditional flow model with a petrophysical model The text discusses properties of porous media within the context of multidisciplinary reservoir modeling and presents the technical details needed to understand and apply the simulator to realistic problems Exercises throughout the text direct the reader to software applications using IFLO input data sets and an executable version of IFLO provided with the text The text software combination provides the resources needed to convey both theoretical concepts and practical skills to geoscientists and engineers

*Origin and Prediction of Abnormal Formation Pressures* V.A. Serebryakov, J.O. Robertson Jr., G.V. Chilingarian, 2002-05-24 Knowledge of the presence of abnormally high pressure zones AHFP prior to drilling into them can prevent considerable economic losses and possibly save human lives The various origins undercompaction tectonics etc of AHFPs are discussed followed by the description of predictive techniques in clastic carbonate and salt bearing formations In addition to the well logging predictive techniques the authors discuss smectite illite transformation and the chemistry of interstitial solutions Other topics covered include a abnormally low formation pressures and subsidence and b mathematical modelling Loss of potential production may result if AHFPs are not properly identified and evaluated Many hydrocarbon bearing formations with AHFPs are erroneously condemned This book is of interest to engineers and geologists involved in the a evaluation b drilling in c completing and d producing from hydrocarbon reservoirs with AHFPs

**Carbonate Reservoir Characterization** F. Jerry Lucia, 1999 One main target in petroleum recovery is the description of of the three dimensional distribution of petrophysical properties on the interwell scale in carbonate reservoirs in order to improve performance predictions by means of fluid flow computer simulations The book focuses on the improvement of geological petrophysical and geostatistical methods describes the basic petrophysical properties important

geology parameters and rock fabrics from cores and discusses their spatial distribution A closing chapter deals with reservoir models as an input into flow simulators

**Wettability** Erle C. Donaldson, Waqi Alam, 2013-11-25 The wettability of oil reservoirs is the most important factor controlling the rate of oil recovery providing a profound effect on petroleum production The petroleum industry has increased the research effort on wettability but so far there has been limited coverage on the topic Wettability reviews the major research and applications on wettability capillary pressure and improved recovery Critical topics including core preservation the effect of wettability on relative permeability surface forces such as van der Waals equation of state petroleum traps and pore size effects are all included in this must-have handbook Deciphering the techniques and examples will increase the efficiency and production of oil recovery translating to stronger reservoir simulations and improved well production

**Carbonate Reservoir Heterogeneity** Vahid Tavakoli, 2019-11-11 This book provides a comprehensive overview of the parameters and factors that cause heterogeneity in carbonate reservoirs and examines how they interact with one another It explores the various scales of heterogeneity how they are caused and how they can be minimized as well as how the scales affect each other providing practical examples in each chapter The book concludes by discussing the effect of heterogeneity on petrophysical evaluations As reducing heterogeneity is the only way to obtain accurate carbonate reservoir characteristics at the regional scale the book offers an important reference guide for all geologists engineers and modelers working with subsurface data

**Petroleum Abstracts**, 1998

**Limestone in the Built Environment** Bernard J. Smith, 2010 Limestone is a highly successful and widely used building material found in many important historic buildings and new monuments around the world Whilst its success reflects its durability under a wide range of environmental conditions there are still important questions surrounding the selection use and conservation of building limestones In order to make best use of new limestone today and to conserve old limestone most effectively we need to bring modern research methods to bear on understanding the characteristics of different limestones what mortars to use and how key limestones have responded to polluted atmospheres This volume brings together recent interdisciplinary research on these issues illustrating the diversity of innovative techniques that are now being applied to furthering our understanding of building limestones

**The Log Analyst**, 1999

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