

Oil Gas Calculations

Moshood Sanni

Computer Programs for Turner Calculations of Gas-drive Oil Recovery by Analytical Or Iterative Method Ralph V. Higgins, Alan J. Leighton, 1960

Formulas and Calculations for Petroleum Engineering Cenk Temizel, Tayfun Tuna, Mehmet Melih Oskay, Luigi Saputelli, 2019-08-15 Formulas and Calculations for Petroleum Engineering unlocks the capability for any petroleum engineering individual, experienced or not, to solve problems and locate quick answers, eliminating non-productive time spent searching for that right calculation. Enhanced with lab data experiments, practice examples, and a complimentary online software toolbox, the book presents the most convenient and practical reference for all oil and gas phases of a given project. Covering the full spectrum, this reference gives single-point reference to all critical modules, including drilling, production, reservoir engineering, well testing, well logging, enhanced oil recovery, well completion, fracturing, fluid flow, and even petroleum economics. Presents single-point access to all petroleum engineering equations, including calculation of modules covering drilling, completion and fracturing Helps readers understand petroleum economics by including formulas on depreciation rate, cashflow analysis, and the optimum number of development wells

Formulas and Calculations for Drilling Operations James G. Speight, 2018-04-09 Presented in an easy-to-use format, this second edition of Formulas and Calculations for Drilling Operations is a quick reference for day-to-day work out on the rig. It also serves as a handy study guide for drilling and well control certification courses. Virtually all the mathematics required on a drilling rig is here in one convenient source, including formulas for pressure gradient, specific gravity, pump, output, annular velocity, buoyancy factor, and many other topics. Whether open on your desk, on the hood of your truck at the well, or on an offshore platform, this is the only book available that covers the gamut of the formulas and calculations for petroleum engineers that have been compiled over decades. Some of these formulas and calculations have been used for decades, while others are meant to help guide the engineer through some of the more recent breakthroughs in the industry's technology, such as hydraulic fracturing and enhanced oil recovery. There is no other source for these useful formulas and calculations that is this thorough. An instant classic when the first edition was published, the much-improved revision is even better, offering new information not available in the first edition, making it as up-to-date as possible in book form. Truly a state-of-the-art masterpiece for the oil and gas industry, if there is only one book you buy to help you do your job, this is it!

Calculating Oil Recoveries for Solution-gas-drive Reservoirs Ralph V. Higgins, 1956

Derivation and Application of a Material Balance Equation for Partly Depleted Oil Reservoirs Repressured with Gas Alton B. Cook, F. Sam Johnson, 1966

Formulas and Calculations for Drilling, Production, and Workover William C. Lyons, Thomas Carter, Norton J. Lapeyrouse, 2015-11-02 Formulas and Calculations for Drilling, Production, and Workover, All the Formulas You Need to Solve Drilling and Production Problems, Fourth Edition provides a convenient reference for oil field workers who do not use formulas and calculations on a regular basis, aiming to help reduce the volume of materials they must carry to the rig floor or job site. Starting with a review of basic equations, calculations, and featuring many examples, this handy reference offers a quick look-up of topics such as drilling fluids, pressure control, engineering calculations, and air and gas calculations. The formulas and calculations are provided in either English field units or in metric units. This edition includes additional coverage on cementing, subsea considerations, well hydraulics, especially calculating for hydraulic fracturing methods, and drill string design limitations. This practical guide continues to save time and money for the oil field worker or manager, with an easy layout and organization to help confidently conduct operations and evaluate the performance of wells on-the-go. Features a new chapter focused on cementing Includes on-the-job answers and formulas for today's hydraulic fracturing methods Provides extra utility with an online basic equation calculator for 24/7 problem-solving access Covers topics such as drilling fluids, pressure control, engineering calculations, and air and gas calculations

Fundamentals of Oil and Gas Processing Yasser Kassem, 2018-11-25 The book includes: Basic information of oil and gas treatment, including process calculations. Gas properties, gas calculations, and process vessel sizing and selection. Operation and design of separators, heater treaters, desalters, stabilization and sweetening facilities. Basic of fluid measurement, process instrumentation and control, and pressure relief systems. The book is very useful for Engineers, chemists, and technicians in oil and gas production and processing sections.

Petroleum Engineering: Principles, Calculations, and Workflows Moshood Sanni, 2018-10-23 A comprehensive and practical guide to methods for solving complex petroleum engineering problems Petroleum engineering is guided by overarching scientific and mathematical principles, but there is sometimes a gap between theoretical knowledge and practical application. Petroleum Engineering: Principles, Calculations, and Workflows presents methods for solving a wide range of real-world petroleum engineering problems. Each chapter deals with a specific issue, and includes formulae that help explain primary principles of the problem before providing an easy to follow, practical application. Volume highlights include: A robust, integrated approach to solving inverse problems In-depth exploration of workflows with model and parameter validation Simple approaches to solving complex mathematical problems Complex calculations that can be easily implemented with simple methods Overview of key approaches required for software and application development Formulae and model guidance for diagnosis, initial modeling of parameters, and simulation and regression Petroleum Engineering: Principles, Calculations, and Workflows is a valuable and practical resource to a wide community of geoscientists, earth scientists, exploration geologists, and engineers. This accessible guide is also well-suited for graduate and postgraduate students, consultants, software developers, and professionals as an authoritative reference for day-to-day petroleum engineering problem solving. Read an interview with the editors to find out more: <https://eos.org/editors-vox/integrated-workflow-approach-for-petroleum-engineering-problems>

501 Solved Problems and Calculations for Drilling Operations ROBELLO SAMUEL, 2015-01-01 This book is an expanded and corrected version of the author's Formulas and Calculation for Drilling Operations - Edition 1 book. It is the most comprehensive practical handbook with calculations and solved problems for drilling operations. This central premise of this book is easy to use step-by-step calculations which can be used by students, lecturers, drilling engineers, consultants, software programmers, operational managers, and researchers. Apart from a basic introductory chapter giving a brief treatment of calculations on rig math, this book consists entirely of problems and solutions on focused topics encountered in drilling operations. 501 solved Problems and calculations will help you to connect relevant engineering theories associated with drilling operations and quickly identify the parameters influencing the operations.

Equations of State and PVT Analysis Tarek Ahmed, 2016-03-02 Understanding the properties of a reservoir's fluids and creating a successful model based on lab data and calculation are required for every reservoir engineer in oil and gas today, and with reservoirs becoming more complex, engineers and managers are back to reinforcing the fundamentals. PVT (pressure-volume-temperature) reports are one way to achieve better parameters, and Equations of State and PVT Analysis, 2nd Edition, helps engineers to fine tune their reservoir problem-solving skills and achieve better modeling and maximum asset development. Designed for training sessions for new and existing engineers,

Equations of State and PVT Analysis, 2nd Edition, will prepare reservoir engineers for complex hydrocarbon and natural gas systems with more sophisticated EOS models, correlations and examples from the hottest locations around the world such as the Gulf of Mexico, North Sea and China, and Q&A at the end of each chapter. Resources are maximized with this must-have reference. Improve with new material on practical applications, lab analysis, and real-world sampling from wells to gain better understanding of PVT properties for crude and natural gas Sharpen your reservoir models with added content on how to tune EOS parameters accurately Solve more unconventional problems with field examples on phase behavior characteristics of shale and heavy oil

Transmission Pipeline Calculations and Simulations Manual E. Shashi Menon,2014-12-27 Transmission Pipeline Calculations and Simulations Manual is a valuable time- and money-saving tool to quickly pinpoint the essential formulae, equations, and calculations needed for transmission pipeline routing and construction decisions. The manual's three-part treatment starts with gas and petroleum data tables, followed by self-contained chapters concerning applications. Case studies at the end of each chapter provide practical experience for problem solving. Topics in this book include pressure and temperature profile of natural gas pipelines, how to size pipelines for specified flow rate and pressure limitations, and calculating the locations and HP of compressor stations and pumping stations on long distance pipelines. Case studies are based on the author's personal field experiences Component to system level coverage Save time and money designing pipe routes well Design and verify piping systems before going to the field Increase design accuracy and systems effectiveness

Oil Field Calculator Silvestre Cassa Iombo,2022-09-05 OIL FIELD CACULATOR is a book that describe one the innovator calculator in Oil and Gas have invented. This calculator by name OFC2000 has been registered in Angola and USA, has very unique features that many software many software does not have. The books speak how its unique features contribution on modern science in the area of cost estimation, went on stated how it solved many complex engineers' problems that we see in our generation. Using the OFC2000 has many applicability in modern science due its simplicity. It has able to generation result in short period of time. Due its simplicity many professionals can also, even though they may have very knowledge of oil and gas Industry. OFC2000 has substantial uses benefits and utilities for cost calculator in Oil and Gas. Using this technology has started contributed on rapid evaluation of many oil and gas fields over the world. Nowadays, it is foreseen many cases studies using this calculator that permits people to strategize how is going about development many fields. The books show the cases studies as example to use the calculator and Real-life example how it was done in Oil and Gas Industry by mentions Field Development using OFC2000. Final the book, close the last chapter that shows the print report from OFC2000 Calculator.

Oil and Gas Lease Pooling Calculations Workbook Marsha Breazeale,2018-08 This workbook uses a fictitious pooled unit in Texas to walk the reader through each detailed step of identifying the leases to be pooled, the leasehold owners, and mineral rights covered by each lease. Unit development begins with the Joint Interest Billing calculations, to determine the share of costs to be borne by each leasehold owner. Participation becomes complicated with non-participation by some leasehold owners. Next comes the revenue division of interest calculations after the date of first sales. Then as the unit is further developed by additional wells (density drilling), a farmout is created further complicating ownership of production. Lease royalties and overriding royalties are calculated as burdens against leasehold owners for each well, each step of the way. This is the only way a mineral owner, royalty owner, or overriding royalty owner can know who is responsible for paying them revenues during the life of the well. Oklahoma calculations required by Oklahoma's Production Revenue Standards Act are explained in detail. Calculations for private mineral rights in federal units are also included, applicable to any state containing federal units and communitization. Spiral-bound letter-size paperback. 144 pages.

The Steam Engine and Gas and Oil Engines John Perry,1899

Fluid Phase Behavior for Conventional and Unconventional Oil and Gas Reservoirs Alireza Bahadori,2016-11-24 Fluid Phase Behavior for Conventional and Unconventional Oil and Gas Reservoirs delivers information on the role of PVT (pressure-volume-temperature) tests/data in various aspects, in particular reserve estimation, reservoir modeling, flow assurance, and enhanced oil recovery for both conventional and unconventional reservoirs. This must-have reference also prepares engineers on the importance of PVT tests, how to evaluate the data, develop an effective management plan for flow assurance, and gain perspective of flow characterization, with a particular focus on shale oil, shale gas, gas hydrates, and tight oil making. This book is a critical resource for today's reservoir engineer, helping them effectively manage and maximize a company's oil and gas reservoir assets. Provides tactics on reservoir phase behavior and dynamics with new information on shale oil and gas hydrates Helps readers Improve on the effect of salt concentration and application to C02-Acid Gas Disposal with content on water-hydrocarbon systems Provides practical experience with PVT and tuning of EOS with additional online excel spreadsheet examples

Fundamentals of Reservoir Engineering L.P. Dake,1983-01-01 This book is fast becoming the standard text in its field, wrote a reviewer in the Journal of Canadian Petroleum Technology soon after the first appearance of Dake's book. This prediction quickly came true: it has become the standard text and has been reprinted many times. The author's aim - to provide students and teachers with a coherent account of the basic physics of reservoir engineering - has been most successfully achieved. No prior knowledge of reservoir engineering is necessary. The material is dealt with in a concise, unified and applied manner, and only the simplest and most straightforward mathematical techniques are used. This low-priced paperback edition will continue to be an invaluable teaching aid for years to come.

The use of Prosper in studying the Production Optimization of an Oil Well Anireju Emmanuel Dudun,2018-02-26 Bachelor Thesis from the year 2014 in the subject Engineering - Power Engineering, grade: A, University of Benin, course: Petroleum Engineering, language: English, abstract: Crude oil production is a major requirement to sustaining the well begins of any petroleum company. This will entail the effective placement of all facilities and equipment; surface or subsurface in order to achieve optimum volume of crude oil production, this is usually called production optimization. In this study, the software prosper was utilized to case study well J-12T Well J-12T, a natural producer was producing at its peak oil rate at 6137 STB/d at 0% water-cut by mid-1973 but since then production has been on the decline due to increasing water-cut and decreasing reservoir pressure. But to date, the well is producing at an oil rate of 1431 STB/d at a water-cut of 50%.The VLP/IPR data were matched to well test flow rate measurement with a deviation of about 0,0534%, thereafter a short and long term optimization plan scenarios such as sensitivity runs on the well head pressure, tubing sizes, and gas lift technique respectively etc for the well, were simulated in PROSPER and then evaluated. The results of this work suggests that; by lowering the Christmas tree pressure from 180 to 120psi the well's life can be extended to 70% water-cut, also increasing the tubing size from 2,992 to 3,958 ID is also recommended. The gas lift method was found to be more economical as it can produce up to a maximum economic water cut of 90% with optimum gas injection rate of 3.3MMscf/d and oil production rates will increased from 1431 STB/d to about 3000 STB/d at 50% water-cut.

Petroleum Reservoir Engineering Practice Nnaemeka Ezekwe,2010-09-09 The Complete, Up-to-Date, Practical Guide to Modern Petroleum Reservoir Engineering This is a complete, up-to-date guide to the practice of petroleum reservoir engineering, written by one of the world's most experienced professionals. Dr. Nnaemeka Ezekwe covers topics ranging from basic to advanced, focuses on currently acceptable practices and modern techniques, and illuminates key concepts with realistic case histories drawn from decades of working on petroleum reservoirs worldwide. Dr. Ezekwe begins by discussing the sources and applications of basic rock and fluid properties data. Next, he

shows how to predict PVT properties of reservoir fluids from correlations and equations of state, and presents core concepts and techniques of reservoir engineering. Using case histories, he illustrates practical diagnostic analysis of reservoir performance, covers essentials of transient well test analysis, and presents leading secondary and enhanced oil recovery methods. Readers will find practical coverage of experience-based procedures for geologic modeling, reservoir characterization, and reservoir simulation. Dr. Ezekwe concludes by presenting a set of simple, practical principles for more effective management of petroleum reservoirs. With Petroleum Reservoir Engineering Practice readers will learn to • Use the general material balance equation for basic reservoir analysis • Perform volumetric and graphical calculations of gas or oil reserves • Analyze pressure transients tests of normal wells, hydraulically fractured wells, and naturally fractured reservoirs • Apply waterflooding, gasflooding, and other secondary recovery methods • Screen reservoirs for EOR processes, and implement pilot and field-wide EOR projects. • Use practical procedures to build and characterize geologic models, and conduct reservoir simulation • Develop reservoir management strategies based on practical principles Throughout, Dr. Ezekwe combines thorough coverage of analytical calculations and reservoir modeling as powerful tools that can be applied together on most reservoir analyses. Each topic is presented concisely and is supported with copious examples and references. The result is an ideal handbook for practicing engineers, scientists, and managers—and a complete textbook for petroleum engineering students.

Reservoir Engineering Handbook Tarek Ahmed,2018-11-23 Reservoir Engineering Handbook, Fifth Edition, equips engineers and students with the knowledge they require to continue maximizing reservoir assets, especially as more reservoirs become complex, more multilayered, and unconventional in their extraction method. Building on the solid reputation of the previous edition, this new volume presents critical concepts, such as fluid flow, rock properties, water and gas coning, and relative permeability in a straightforward manner. Water influx calculations, lab tests of reservoir fluids, oil and gas performance calculations, and other essential tools of the trade are also introduced, reflecting on today’s operations. New for this edition is an entire new chapter devoted to enhanced oil recovery techniques, including WAG. Critical new advances in areas such as well performance, waterflooding and an analysis of decline and type curves are also addressed, along with more information on the growing extraction from unconventional reservoirs. Practical and critical for new practicing reservoir engineers and petroleum engineering students, this book remains the authoritative handbook on modern reservoir engineering and its theory and practice. Highlights new content on unconventional reservoir activity, hydraulic fracturing, and a new chapter devoted to modern enhanced oil recovery methods and technologies Provides an everyday reference with ‘real world’ examples to help engineers grasp derivations and equations Presents the key fundamentals needed, including new information on rock properties, fluid behavior, and relative permeability concepts

Well Control Book Elise Bellany,2021-03-20 Well control is the technique used in oil and gas operations such as drilling, well workover and well completion for maintaining the hydrostatic pressure and formation pressure to prevent the influx of formation fluids into the wellbore. This technique involves the estimation of formation fluid pressures, the strength of the subsurface formations and the use of casing and mud density to offset those pressures in a predictable fashion. Understanding pressure and pressure relationships are important in well control. The aim of oil operations is to complete all tasks in a safe and efficient manner without detrimental environmental effects. This aim can only be achieved if well control is maintained at all times. The understanding of pressure and pressure relationships are important in preventing blowouts by experienced personnel who are able to detect when the well is kicking and take proper and prompt actions. This book is an interactive book containing 25 questions related to well control calculations covered from the basic to some calculations.

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








































































































































































































































































































































































































































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