

Casing Design Theory And Practice Casing Design Theory And Practice

Casing Design - Theory and Practice-S.S. Rahman 1995-08-01 Casing design has followed an evolutionary trend and most improvements have been made due to the advancement of technology. Contributions to the technology in casing design have come from fundamental research and field tests, which have made casing safe and economical. This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i.e. optimizing casing design for deriving maximum profit from a particular well. The problems and their solutions, which are provided in each chapter, and the computer program (3.5 in. disk) are intended to serve two purposes:- firstly, as illustrations for students and practicing engineers to understand the subject matter, and secondly, to enable them to optimize casing design for a wide range of wells to be drilled in the future.

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Risk, Reliability and Safety: Innovating Theory and Practice-Lesley Walls 2016-11-25 Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25—29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management.

The Practice of Reservoir Engineering (Revised Edition)-L.P. Dake 2001-05-10 This revised edition of the bestselling Practice of Reservoir Engineering has been written for those in the oil industry requiring a working knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner. Containing additions and corrections to the first edition, the book is a simple statement of how to do the job and is particularly suitable for reservoir/production engineers as well as those associated with hydrocarbon recovery. This practical book approaches the basic limitations of reservoir engineering with the basic tenet of science: Occam's Razor, which applies to reservoir engineering to a greater extent than for most physical sciences - if there are two ways to account for a physical phenomenon, it is the simpler that is the more useful. Therefore, simplicity is the theme of this volume. Reservoir and production engineers, geoscientists, petrophysicists, and those involved in the management of oil and gas fields will want this edition.

Well Completion Design-Jonathan Bellarby 2009-04-13 Completions are the conduit between hydrocarbon reservoirs and surface facilities. They are a fundamental part of any hydrocarbon field development project. They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last for many years under ever changing conditions. Issues include: connection with the reservoir rock, avoiding sand production, selecting the correct interval, pumps and other forms of artificial lift, safety and integrity, equipment selection and installation and future well interventions. * Course book based on course well completion design by TRACS International * Unique in its field: Coverage of offshore, subsea, and landbased completions in all of the major hydrocarbon basins of the world. * Full colour

Fundamentals of Sustainable Drilling Engineering-M. E. Hossain 2015-02-04 The book clearly explains the concepts of the drilling engineering and presents the existing knowledge ranging from the history of drilling technology to well completion. This textbook takes on the difficult issue of sustainability in drilling engineering and tries to present the engineering terminologies in a clear manner so that the new hire, as well as the veteran driller, will be able to understand the drilling concepts with minimum effort. This textbook is an excellent resource for petroleum engineering students, drilling engineers, supervisors & managers, researchers and environmental engineers for planning every aspect of rig operations in the most sustainable, environmentally responsible manner, using the most up-to-date technological advancements in equipment and processes.

Multiphase Flow Metering-Gioia Falcone 2009-11-16 Over the last two decades the development, evaluation and use of MFM systems has been a major focus for the Oil & Gas industry worldwide. Since the early 1990's, when the first commercial meters started to appear, there have been around 2,000 field applications of MFM for field allocation, production optimisation and well testing. So far, many alternative metering systems have been developed, but none of them can be referred to as generally applicable or universally accurate. Both established and novel technologies suitable to measure the flow rates of gas, oil and water in a three-phase flow are reviewed and assessed within this book. Those technologies already implemented in the various commercial meters are evaluated in terms of operational and economical advantages or shortcomings from an operator point of view. The lessons learned about the practical reliability, accuracy and use of the available technology is discussed. The book suggests where the research to develop the next generation of MFM devices will be focused in order to meet the as yet unsolved problems. The book provides a critical and independent review of the current status and future trends of MFM, supported by the authors' strong background on multiphase flow and by practical examples. These are based on the authors' direct experience on MFM, gained over many years of research in connection with both operators and service companies. As there are currently no books on the subject of Multiphase Flow Metering for the Oil & Gas industry, this book will fill in the gap and provide a theoretical and practical reference for professionals, academics, and students. * Written by leading scholars and industry experts of international standing * Includes strong coverage of the theoretical background, yet also provides practical examples and current developments * Provides practical reference for professionals, students and academics

Pressure Transient Formation and Well Testing-Fikri J. Kuchuk 2010-08-04 This reference presents a comprehensive description of flow through porous media and solutions to pressure diffusion problems in homogenous, layered, and heterogeneous reservoirs. It covers the fundamentals of interpretation techniques for formation tester pressure gradients, and pretests, multiprobe and packer pressure transient tests, including derivative, convolution, and pressure-rate and pressure-pressure deconvolution. Emphasis is placed on the maximum likelihood method that enables one to estimate error variances in pressure data along with the unknown formation parameters. Serves as a training manual for geologists, petrophysicists, and reservoir engineers on formation and pressure transient testing Offers interpretation techniques for immediate application in the field Provides detailed coverage of pretests, multiprobe and packer pressure transient tests, including derivative, convolution, and pressure-rate and pressure-pressure deconvolution

Energy Potential of the Russian Arctic Seas-Alexey Piskarev 2012 The structure of sedimentary basins of the Russian Arctic Seas is studied and illustrated by a number of maps, cross-sections and geophysical models. The calculated density models of the Earth crust illustrate the deep structure of the main blocks of the crust. Five major gas-condensate and gas fields are discovered here: three (Shtokman, Ludlov, Ledovoe) in the Barents and two (Leningrad and Rusanov) in the Kara Sea. Geological and geophysical characteristics of the Russian Arctic Sea sedimentary basins allow an estimation of their hydrocarbon potential by comparison with the known world analogues. Total potential resources of giant deposits of hydrocarbons in Russian Arctic Seas are estimated at 470 billion barrels of oil equivalent. The richest resources are the Kara Sea and Laptev Sea. Less rich is Barents Sea. The relatively smaller contribution to the overall estimation of the resources makes the resources of East-Siberian Sea and Chukchi Sea. Development the energy capacity of the continental shelf of Russia can play a stabilizing role in the dynamics of oil and gas production in the period 2010-2020. A key role in developing the capacity of the Arctic shelf oil and gas play is the innovative technology in exploration, production and management of the relevant investment projects. World offshore experience indicates that the combination of these factors is achieved through the formation of international firms and organizations. Comprehensively assesses the potential oil and gas resources in sedimentary basins within the Russian sector of the Arctic Ocean Describes the economic and legal challenges to the development of offshore fields in Russia Explores possible ways and timing to make these hydrocarbon resources available to the global market

The Fundamentals of Corrosion and Scaling for Petroleum & Environmental Engineers-George V Chilingar 2013-11-25 Scale, or deposits, can build up in the wellbore tubulars and other downhole components, causing considerable damage to the life of the well. Infrastructure provides the support for the wells system and with oil and gas consumption on the rise and transportation required to feed that demand, all petroleum and pipeline engineers must have accurate corrosion and scaling information. The Fundamentals of Corrosion and Scaling for Petroleum and Environmental Engineers will provide the quick knowledge that engineers need to not only enhance the reliability of corrosion and scale control technologies but also manage scale deposits, prevent fatigue and ensure equipment integrity.

Geology and Geochemistry of Oil and Gas-L. Buryakovskiy 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

Origin and Prediction of Abnormal Formation Pressures-V.A. Serebryakov 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.

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.

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.

Soft Computing and Intelligent Data Analysis in Oil Exploration-M. Nikravesh 2003-04-22 This comprehensive book highlights soft computing and geostatistics applications in hydrocarbon exploration and production, combining practical and theoretical aspects. It spans a wide spectrum of applications in the oil industry, crossing many discipline boundaries such as geophysics, geology, petrophysics and reservoir engineering. It is complemented by several tutorial chapters on fuzzy logic, neural networks and genetic algorithms and geostatistics to introduce these concepts to the uninitiated. The application areas include prediction of reservoir properties (porosity, sand thickness, lithology, fluid), seismic processing, seismic and bio stratigraphy, time lapse seismic and core analysis. There is a good balance between introducing soft computing and geostatistics methodologies that are not routinely used in the petroleum industry and various applications areas. The book can be used by many practitioners such as processing geophysicists, seismic interpreters, geologists, reservoir engineers, petrophysicist, geostatisticians, asset managers and technology application professionals. It will also be of interest to academics to assess the importance of, and contribute to, R&D efforts in relevant areas.

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.

Asphaltenes and Asphalts, 2-T.F. Yen 2000-08-16 This is the second volume in the series of Asphaltenes and Asphalts. Since the publication of the first volume in 1994, there has been a significant advancement in our knowledge. Knowledge of both asphaltenes and asphalts is needed by several disciplines, and often the progress is dictated by interdisciplinary sciences and technology. This includes material sciences, fuel sciences, chemical engineering, civil engineering, environmental engineering, polymer sciences, transportation engineering, petroleum engineering, chemistry, geological sciences, physics, geochemistry rheology, biological sciences, tribology, soil sciences, petroleum science. The development in this field is not based on our knowledge of chemistry or petroleum engineering alone, as many chemists and petroleum engineers believe. In this volume, therefore, significant contributions from different disciplines have been included.

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 Geothermics for Petroleum Engineers is the first book on this topic available to the petroleum engineering community. The objective of the book is to present the state of knowledge and prediction of downhole and formations temperatures during well drilling, well completion, shut-in and production. Applied Geothermics for Petroleum Engineers is intended for drilling engineers (impact of elevated temperatures on well drilling and completion technology, Arctic drilling), production engineers (temperature regime of production, injection and geothermal wells, Arctic production), reservoir engineers (temperature field of reservoirs, thermal properties of formations and formation fluids), well logging engineers (interpretation of electrical resistance, mud density, and temperature logs), and geophysicists and geologists (interpretation of geophysical data, calculation of the terrestrial heat flow, reconstruction of past climates).

PVT and Phase Behaviour Of Petroleum Reservoir Fluids-Ali Danesh 1998-05-07 This book on PVT and Phase Behaviour Of Petroleum Reservoir Fluids is volume 47 in the Developments in Petroleum Science series. The chapters in the book are: Phase Behaviour Fundamentals, PVT Tests and Correlations, Phase Equilibria, Equations of State, Phase Behaviour Calculations, Fluid Characterisation, Gas Injection, Interfacial Tension, and Application in Reservoir Simulation.

Petroleum Related Rock Mechanics-Erling Fjar 2008-01-04 Engineers and geologists in the petroleum industry will find Petroleum Related Rock Mechanics, 2e, a powerful resource in providing a basis of rock mechanical knowledge - a knowledge which can greatly assist in the understanding of field behavior, design of test programs and the design of field operations. Not only does this text give an introduction to applications of rock mechanics within the petroleum industry, it has a strong focus on basics, drilling, production and reservoir engineering. Assessment of rock mechanical parameters is covered in depth, as is acoustic wave propagation in rocks, with possible link to 4D seismics as well as log interpretation. Learn the basic principles behind rock mechanics from leading academic and industry experts Quick reference and guide for engineers and geologists working in the field Keep informed and up to date on all the latest methods and fundamental concepts

Carbonate Reservoir Characterization: A Geologic-Engineering Analysis-S.J. Mazzullo 1996-11-22 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.

Petroleum and Marine Technology Information Guide-J. Hutcheon 2003-09-02 First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil, gas and marine industries.

Oilfield Review- 1997

Proceedings of the ASME Design Engineering Division ...- 2004

OMC 99, Offshore Mediterranean Conference- 1999

Gas Lift Theory and Practice, Including a Review of Petroleum Engineering Fundamentals-Kermit E. Brown 1973 The book begins with " a comprehensive review of petroleum engineering fundamentals, including conversion and dimensional analysis, liquid properties, reservoir mechanics as related to artificial lift and curve fitting. It also covers the entire spectrum of multiphase flow and flowing well. There is also a complete discussion of all types of gas lift valves and varieties of gas lift installations. The design of gas lift installations for pressure operated valves, liquid operated valves is covered in detail. A special section is devoted to compressor selection and the concluding section of the book presents methods of analyzing working lift installations."

Research and Practice on the Theory of Inventive Problem Solving (TRIZ)-Leonid Chechurin 2016-09-12 This book clarifies the common misconception that there are no systematic instruments

to support ideation, heuristics and creativity. Using a collection of articles from professionals practicing the Theory of Inventive Problem Solving (TRIZ), this book presents an overview of current trends and enhancements within TRIZ in an international context, and shows its different roles in enhancing creativity for innovation in research and practice. Since its first introduction by Genrikh Saulovich Altshuller in 1956 in the USSR, the TRIZ method has been widely used by inventors, design engineers and has become a standard element of innovation support tools in many Fortune 500 companies. However, TRIZ has only recently entered the domain of scientific publications and discussion. This collection of articles is meant as a record of scientific discussion on TRIZ that reflects the most interesting talking points, research interests, results and expectations. Topics such as Creative and Inventive Design, Patent Mining, and Knowledge Harvesting are also covered in this book.

Centrifugal Pump User's Guidebook-Shmariahu Yedidiah 2012-12-06 Specifically for the pump user, this book concentrates on the identification and solution of problems associated with existing centrifugal pumps. It gives specific examples on how to modify pump performance for increased efficiency and better quality control, which turn into long-term cost savings. Some basic theory is included to give the reader greater understanding of the problems being encountered and attacked.

Applied Well Cementing Engineering-Gefei Liu 2021-03-31 Applied Well Cementing Engineering delivers the latest technologies, case studies, and procedures to identify the challenges, understand the framework, and implement the solutions for today's cementing and petroleum engineers. Covering the basics and advances, this contributed reference gives the complete design, flow and job execution in a structured process. Authors, collectively, bring together knowledge from over 250 years of experience in cementing and condense their knowledge into this book. Real-life successful and unsuccessful case studies are included to explain lessons learned about the technologies used today. Other topics include job simulation, displacement efficiency, and hydraulics. A practical guide for cementing engineer, Applied Well Cementing Engineering, gives a critical reference for better job execution. Provides a practical guide and industry best practices for both new and seasoned engineers Independent chapters enable the readers to quickly access specific subjects Gain a complete framework of a cementing job with a detailed road map from casing equipment to plug and abandonment

Irrigation Theory And Practice - 2Nd Edn-A M Michael 2009-11 It is a comprehensive treatise on Water Resources Development and Irrigation Management. For the last 30 years the book has enjoyed the status of an definitive textbook on the subject. It has now been thoroughly revised and updated, and thus substantially enlarged. In addition to the wholesale revision of the existing chapters, three new chapters have been added to the book, namely, [Lift Irrigation Systems and their Design], Water Requirement of Crops and Irrigation Management[], and [Economic Evaluation of Irrigation Projects and Water Pricing Policy].

Elements of Oil and Gas Well Tubular Design-P.D. Pattillo 2018-05-25 Elements of Oil and Gas Well Tubular Design offers insight into the complexities of oil well casing and tubing design. The book's intent is to be sufficiently detailed on the tubular-oriented application of the principles of solid mechanics while at the same time providing readers with key equations pertinent to design. It addresses the fundamentals of tubular design theory, bridging the gap between theory and field operation. Filled with derivations and detailed solutions to well design examples, Elements of Oil and Gas Well Tubular Design provides the well designer with sound engineering principles applicable to today's oil and gas wells. Understand engineering mechanics for oil well casing and tubing design with emphasis on derivation, limitations, and application of fundamental equations Grasp well tubular design from one unified source with underlying concepts of stress, strain, and material constitution Quantify practice with detailed well design worked examples amenable to quality check with commercial software

The APPEA Journal- 1998

Gas Turbine Engineering Handbook-Meherwan P. Boyce 2012 Chapter 1: Overview of Gas Turbines -- Chapter 2: Theoretical and Actual Cycle Analysis -- Chapter 3: Compressor and Turbine Performance Characteristics -- Chapter 4: Performance and Mechanical Standards -- Chapter 5: Rotor Dynamics -- Chapter 6: Centrifugal Compressors -- Chapter 7: Axial-Flow Compressors -- Chapter 8: Radial-Inflow Turbines -- Chapter 9: Axial-Flow Turbines -- Chapter 10: Combustors -- Chapter 11: Materials -- Chapter 12: Gas Clean Up System -- Chapter 13: Bearings and Seals -- Chapter 14: Gears -- Chapter 15: Lubrication -- Chapter 16: Spectrum Analysis -- Chapter 17: Balancing -- Chapter 18: Couplings and Alignment -- Chapter 19: Control Systems and Instrumentation -- Chapter 20: Gas Turbine Performance Test -- Chapter 21: Maintenance Techniques -- Chapter 22: Case Studies -- Appendix: Equivalent Units.

Materials Performance- 1963

Whitaker's Books in Print- 1998

Vadose Zone Science and Technology Solutions-Brian B. Looney 2000 CD contains the entire text of the book plus additional case studies.

Official Journal (patents)-Great Britain. Patent Office 1995

Fossil Energy Update- 1985

The Oil and Gas Journal- 1980

The British National Bibliography-Arthur James Wells 1995

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