Assessment Of Petroleum Properties Self Study Training Session

Characterization and Properties of Petroleum Fractions
Annual Report
Introduction to Geophysical Formation Evaluation
Drilling and Reservoir Appraisal
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Petroleum Generation, Migration and Storage in Shale System
Handbook of Heavy Oil Properties and Analysis
Composition and Properties of Petroleum
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Guide to ASTM Test Methods for the Analysis of Petroleum Products and Lubricants
Oil and Gas Production Handbook: An Introduction to Oil and Gas Production
Crude Oils
Petroleum
Physical and Chemical Properties of the Petroleums of California
Studies of Certain Properties of Oil Shale and Shale Oil
Hydrocarbons from Petroleum: the Fractionation, Analysis, Isolation, Purification, and Properties of Petroleum Hydrocarbons
A Handbook of Petroleum, Asphalt and Natural Gas
Report on an Assessment of Available Information on Energy in the United States to the Committee on Interior and Insular Affairs, United States Senate
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ERNESTO KEAGAN

Characterization and Properties of Petroleum Fractions John Wiley & Sons
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Introduction to Geophysical Formation Evaluation Nabu Press
When the U.S. Department of the Interior released its 1989 estimates of how much undiscovered oil and gas remain in the United States, a controversy ensued. Some members of the petroleum industry charged that the estimates were too low. This book evaluates the scientific credibility of the statistical and geological methods underlying the estimates.
Drilling and Reservoir Appraisal McGraw-Hill Companies
Continuing the tradition and high standards set by earlier editions, Petroleum Refining, Fourth Edition summarizes recent developments in oil refining processes, addressing topics ranging from basic applications to the implementation of viable operations that meet environmental and economic stipulations. Maintaining the clear and systematic style of presentation that sent the previous editions into more than 25 printings, Petroleum Refining, Fourth Edition Incorporates valuable statistics on utility data, investment, and operating costs for estimating the economics of refining configurations! Describes petroleum's physical and chemical properties Satisfies "short-term" demands from recent legal standpoints for creating reformulated fuels Reviews petroleum-refining technology and all the major refining processes Considers environmental concerns, the place of reformulated fuels in product distribution, and uses for heavier crude oils and crude oils with higher sulfur and metal contents Enables complete material balances to be made from physical properties and typical yield data Advancing the successful features that led to the adoption of previous editions at numerous colleges and universities, including Harvard University, the Colorado School of Mines, the University of Houston, and the University of Pittsburgh, the Fourth Edition also offers End-of-chapter problems, equations, illustrative tables, notes, and bibliographies An ongoing case-study problem Convenient and helpful appendices on an economic evaluation problem, terminology, physical properties, analyses of selected crude oils, and photographs Written by experts combining academic and professional experience, Petroleum Refining, Fourth Edition is an essential text for all upper-level undergraduate, graduate, and continuing-education students taking courses in petroleum-refinery processing. It also serves as a helpful resource for chemical, petroleum, refining, and process design engineers; refinery management personnel; and energy consultants.
Handbook of Petroleum Analysis ASTM International
These three works cover the entire field of formation evaluation, from basic concepts and theories, through standard methods used by the petroleum industry, on to new and exciting applications in environmental science and engineering, hydrogeology, and other fields. Designed to be used individually or as a set, these volumes represent the first comprehensive assessment of all exploration methodologies. No other books offer the breadth of information and range of applications available in this set. The first volume, Introduction to Geophysical Formation Evaluation, is the perfect introductory reference for environmental professionals without previous training in the field. It explains the fundamentals of geophysical exploration and analysis, illuminates the underlying theories, and offers practical guidance on how to use the available methodologies. General information on material behavior, porosity, tortuosity, permeability, cores, resistivity, radioactivity, and more provides a solid foundation for more advanced studies. The second volume, Standard Methods of Geophysical Formation Evaluation builds on the basic precepts presented in the first work but can be used alone as a self-contained reference. It covers all the petroleum-oriented standard methods which, until recently, have comprised the majority of applications of geophysical formation evaluation. It also points out non-hydrocarbon uses of petroleum methods. This volume provides complete practical information and instructions on using the standard exploration and evaluation methods. It presents comprehensive, painstakingly detailed instructions for resistivity, radiation, and acoustic methods. The third volume, Non-Hydrocarbon Methods of Geophysical Formation Evaluation, discusses uses of formation evaluation in environmental science and engineering, hydrogeology, and other fields outside the petroleum industry, and demonstrates how the standard methods can be adapted to these non-hydrocarbon purpos
Petroleum Generation, Migration and Storage in Shale System Wiley-Interscience
Provides insights into the composition of petroleum, especially its heavy ends, and presents a review of modern methods for the analysis of heavy petroleum fractions, which are viewed as refinery feedstocks. The concept of an atmospheric equivalent boiling point (AEBP) scale increasing the boiling range almost threefold and allowing for the description of all crude oil fractions is introduced.
Handbook of Heavy Oil Properties and Analysis ASTM International
The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic, physical, and transport properties of petroleum fractions. In this chapter, various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures, petroleum fractions, crude oils, natural gases, and reservoir fluids are presented. As it was discussed in Chapters 5 and 6, properties of gases may be estimated more accurately than properties of liquids. Theoretical methods of Chapters 5 and 6 for estimation of thermophysical properties generally can be applied to both liquids and gases; however, more accurate properties can be predicted through empirical correlations particularly developed for liquids. When these correlations are developed with some theoretical basis, they are more accurate and have wider range of applications. In this chapter some of these semitheoretical correlations are presented. Methods presented in Chapters 5 and 6 can be used to estimate properties such as density, enthalpy, heat capacity, heat of vaporization, and vapor pressure. Characterization methods of Chapters 2-4 are used to determine the input parameters needed for various

predictive methods. One important part of this chapter is prediction of vapor pressure that is needed for vapor-liquid equilibrium calculations of Chapter 9.
Composition and Properties of Petroleum ASTM International
Here is a valuable guide to appraise and develop petroleum resources. Geology largely determines exploration policy. This book analyzes the strategic connection between the two and shows how to improve decision making on appraising and developing petroleum resources. It examines and describes the internal patterns in finding oil and gas deposits and outlines a process to evaluate the resources. The book also provides a means for long-term reserve accrual forecasting and evaluation. It uses mathematical modeling as a method to evaluate the initial potential of an oil and gas region as well as a way to forecast future reserves. These models improve the reliability and validity of exploration forecasts and estimates. Strategies for Optimizing Petroleum Exploration helps petroleum engineers and explorationists focus and improve their reserve assessment and decision making. This book shows how to develop and appraise petroleum resources.
Oil Property Evaluation CRC Press
Introduces the reader to the production of the products in arefinery • Introduces the reader to the types of test methodsapplied to petroleum products, including the need forspecifications • Provides detailed explanations for accuratelyanalyzing and characterizing modern petroleum products • Rewritten to include new and evolving testmethods • Updates on the evolving test methods and new testmethods as well as the various environmental regulations arepresented
Guide to ASTM Test Methods for the Analysis of Petroleum Products and Lubricants John Wiley & Sons
Shale resource systems include conventional source rocks, unconventional resources such as shale gas and shale oil system. Regardless of the type of shale resource system, the issues of petroleum formation processes (including petroleum generation, migration and storage) are very important in petroleum evaluation and exploration. Because of the complicated and different geological settings in the world, the evaluation approaches and workflows may not be easily implemented following those from successful examples. Thus, the mechanisms of petroleum formation are fundamental for petroleum exploration and production all over in the world. The reason this special issue focuses on the shale system is because the shale system is not only the main source rock type but also the main unconventional reservoir type in the world.
Oil and Gas Production Handbook: An Introduction to Oil and Gas Production Astm International
Summarizes the essential elements of all analytical tests used to characterize petroleum products. The 350 plus entries are alphabetically arranged by chemical and physical properties, such as apparent viscosity, density, metal analysis, sulfur determination, vapor pressure, and water. Each entry co
Crude Oils CRC Press
Petroleum exhibits a wide range of physical properties. Numerous tests have been and continue to be developed to provide an indication of the means by which a particular feedstock should be processed. An initial inspection of the nature of petroleum provides deductions about the most logical means of refining and classifying. Handbook of Petroleum Analysis is a single, comprehensive source that describes the application and interpretation of data resulting from various test methods for petroleum feed stocks and products. Thus this book deals with the various aspects of petroleum analysis and provides a detailed explanation of the necessary standard tests and procedures that are applicable to feed stocks to help define predictability of behavior. In addition, the application of new methods for determining instability and incompatibility as well as analytical methods related to environmental regulations is described.
Petroleum Astm International
The authors analyze, discuss, and give an overview of petroleum resources and the petroleum industry in the United States in the early 20th Century.
Physical and Chemical Properties of the Petroleums of California CRC Press
Handbook of Heavy Oil Properties and Analysis Understand the future of oil production with this comprehensive guide Heavy oil, also known as viscous oil, is oil too viscous to flow normally from wells and reservoirs. In recent decades it has become increasingly important as a source of liquid oil for use in industrial processes. This places all the greater importance on proper analysis of heavy oil and its properties, so that it can be more effectively refined and deployed to meet ever-growing energy needs. Handbook of Heavy Oil Properties and Analysis provides a comprehensive introduction to the analysis of viscous oil and its properties. It discusses the full range of tests and analytical procedures by which the behavior and refinability of viscous oil samples can be predicted and connects theoretical knowledge to refinery practice throughout. Additionally, its incorporation of the latest environmental regulations makes it an invaluable resource. Readers will also find: Detailed coverage of both physical properties and chemical composition of heavy oil An author more than fifty years of experience in the process industries Discussion of new methods for determining instability and incompatibility This book is a useful reference for scientists and engineers in the oil refining industries, chemists and researchers in heavy oil and adjacent industries, and government officials and regulators.
Studies of Certain Properties of Oil Shale and Shale Oil CRC Press
This book covers the fundamentals of drilling and reservoir appraisal for petroleum. Split into three sections, the first looks at the basic principles of well engineering in terms of planning, design and construction. It then goes on to describe well safety, costs and operations management. The second section is focussed on drilling and core analysis, and the laboratory measurement of the physico-chemical properties of samples. It is clear that efficient development of hydrocarbon reservoirs is highly dependent on understanding these key properties, and the data can only be gathered through a carefully conducted core-analysis program, as described. Finally, in the third section we look at production logging, an essential part of reservoir appraisal, which describes the nature and the behaviour of fluids in or around the borehole. It describes how to know, at a given time, phase by phase, and zone by zone, how much fluid is coming out of or going into the formation. As part of the Imperial College Lectures in Petroleum Engineering, and based on a lecture series on the same topic, Drilling and Reservoir Appraisal provides the introductory information needed for students of the earth sciences, petroleum engineering, engineering and geoscience.
Hydrocarbons from Petroleum: the Fractionation, Analysis, Isolation, Purification, and Properties of Petroleum Hydrocarbons CRC Press
Supported by numerous illustrations and references, this book describes the chemistry and physics that occur during the refinery operations, and how the properties of petroleum can be translated into predictability in refinery scenarios. The chapters discuss such topics as: the composition of petroleum, petroleum analysis and evaluation; metals and heteroatoms in petroleum; asphaltenes and the structure of petroleum, thermal chemistry of petroleum constituents; heavy oil upgrading processes; hydrocracking reactions, catalysts, and processes; and instability and incompatibility of petroleum products.
A Handbook of Petroleum, Asphalt and Natural Gas Wspc (Europe)
A clear presentation of the various aspects of petroleum analysis Petroleum exhibits a wide range of physical properties. Numerous tests have been and continue to be developed to provide an indication of the means by which a particular feedstock should be processed. An initial inspection of the nature of petroleum provides deductions about the most logical means of refining and classifying. Handbook of Petroleum Analysis is a single, comprehensive source that describes the application and interpretation of data resulting from various test methods for petroleum feedstocks and products. The need for the application of analytical techniques to petroleum has increased over the past three decades due to changes in feedstock composition. Handbook of Petroleum Analysis deals with the various aspects of petroleum analysis while providing a detailed explanation of the necessary standard tests and procedures that are applicable to feedstocks. The material also reviews the application of new methods for determining instability and incompatibility, focusing on the analytical methods related to environmental regulations. Most importantly, the book provides details of the meanings of the various test results and how they might be applied to predict feedstock behavior. Where pertinent, new tests that are not yet accepted as standardized are described. Topics covered in Handbook of Petroleum Analysis include: ? Chemical composition ? Physical, thermal, electrical, and optical property testing methods ? Spectroscopic, chemical, fractionation, and chromatographic methods ? Molecular weight ? Use of the data (i.e., mapping and predictability) Handbook of Petroleum Analysis promotes a better understanding of the criteria affecting the quality of petroleum and petroleum products and is a valuable resource for chemists and engineers in the refining industry.
Report on an Assessment of Available Information on Energy in the United States to the Committee on Interior and Insular Affairs, United States Senate Frontiers Media SA
Effective measurement of the composition and properties of petroleum is essential for its exploration, production, and refining; however, new technologies and methodologies are not adequately documented in much of the current literature. Analytical Methods in Petroleum Upstream Applications explores advances in the analytical methods and instrumentation that allow more accurate determination of the components, classes of compounds, properties, and features of petroleum and its fractions. Recognized experts explore a host of topics, including: A petroleum molecular composition continuity model as a context for other analytical measurements A modern modular sampling system for use in the lab or the process area to collect and control samples for subsequent analysis The importance of oil-in-water measurements and monitoring The chemical and physical properties of heavy oils, their fractions, and products from their upgrading Analytical measurements using gas chromatography and nuclear magnetic resonance (NMR) applications Asphaltene and heavy ends analysis Chemometrics and modeling approaches for understanding petroleum composition and properties to improve upstream, midstream, and downstream operations Due to the renaissance of gas and oil production in North America, interest has grown in analytical methods for a wide range of applications. The understanding provided in this text is designed to help chemists, geologists, and chemical and petroleum engineers make more accurate estimates of the crude value to specific refinery configurations, providing insight into optimum development and extraction schemes.
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