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Characterization and Properties of Petroleum Fractions The Properties of Petroleum Fluids Spills of Diluted Bitumen from Pipelines Petroleum Refining: Crude oil, petroleum products, process flowsheets Petroleum and Its Products Properties of Petroleum Reservoir Fluids Significance of Properties of Petroleum Products Interfacial Properties of Petroleum Products Crude Oils, Chemical and Physical Properties Significance of Properties of Petroleum Products Composition and Properties of Petroleum Petroleum Petroleum and Its Products Petroleum Reservoir Rock and Fluid Properties Calculation of Physical Properties of Petroleum Products from Gas Chromatographic Analysis Petroleum Reservoir Engineering: Physical properties Fundamentals of Petroleum Refining Disposal of Petroleum Wastes on Oil-producing Properties Petroleum Chemistry of Fossil Fuels and Biofuels The science of petroleum. Crude oils: chemical and physical properties. Volume 5 part 1 Physical Properties of Rocks Oil in the Sea III Oil Property Valuation Composition and Properties of Petroleum Elements of Petroleum Geology Petroleum A Handbook of Petroleum, Asphalt and Natural Gas Interfacial Properties of Petroleum Products Thermal Properties of Petroleum Products. November 9, 1929 PVT Property Correlations The Acquisition and Divestiture of Petroleum Property Petroleum Reservoir Rock and Fluid Properties, Second Edition Properties of Petroleum Fluids Handbook of Oil Spill Science and Technology Interfacial Properties of Petroleum Products Characterization and Properties of Petroleum Fractions Properties of Petroleum from the Four Corners Area of Arizona, Colorado, New Mexico and Utah Thermal Properties of Petroleum Products Handbook of Petroleum Product Analysis

In the new edition of The Acquisition & Divestiture of Petroleum Property, authors Jim Haag and Gene Wiggins have thoroughly revised and expanded upon the comprehensive first edition. This book is a primer for anyone involved in the acquisition or divestiture of petroleum property. It provides guidance from the initial decision by a company to either purchase or sell property in any stage of its life cycle, whether it is conventional or unconventional production, or if the property is located in the United States or in an international setting. With new case studies and an improved format, this book will benefit anyone involved in the transaction process, from geologists, landmen, reservoir engineers, and evaluation engineers to managers of acquisitions, financial institutions, and oil and gas investors. In the second edition, learn to: Consider geology and basin location in property analysis Determine oil and gas reserves volumes with reservoir engineering methods Assess property value and risk factors Analyze unconventional resources and reserves Determine market value from pricing cycles and recent transactions Review challenges to acquire properties outside the United States Contributing Authors Include H. M. Smith, Gulf Refining Company, Arabian-America Oil Company, J. R. Keith And Many Others. Discusses the formation, composition, properties and processing of the principal fossil and biofuels, ideal for graduate students and professionals. Fundamentals of Petroleum Refining presents the fundamentals of thermodynamics and kinetics, and it explains the scientific background essential for understanding refinery operations. The text also provides a detailed introduction to refinery engineering topics, ranging from the basic principles and unit operations to overall refinery economics. The book covers important topics, such as clean fuels, gasification, biofuels, and environmental impact of refining, which are not commonly discussed in most refinery textbooks. Throughout the source, problem sets and examples are given to help the reader practice and apply the fundamental principles of refining. Chapters 1-10 can be used as core materials for teaching undergraduate courses. The first two chapters present an introduction to the petroleum refining industry and then focus on feedstocks and products. Thermophysical properties of crude oils and petroleum fractions, including processes of atmospheric and vacuum distillations, are discussed in Chapters 3 and 4. Conversion processes, product blending, and alkylation are covered in chapters 5-10. The remaining chapters discuss hydrogen production, clean fuel production, refining economics and safety, acid gas treatment and removal, and methods for environmental and effluent treatments. This source can serve both professionals and students (on undergraduate and graduate levels) of Chemical and Petroleum Engineering, Chemistry, and Chemical

Technology. Beginners in the engineering field, specifically in the oil and gas industry, may also find this book invaluable. Provides balanced coverage of fundamental and operational topics Includes spreadsheets and proces simulators for showing trends and simulation case studies Relates processing to planning and management to give an integrated picture of refining A strong foundation in reservoir rock and fluid properties is the backbone of almost all the activities in the petroleum industry. Suitable for undergraduate students in petroleum engineering, Petroleum Reservoir Rock and Fluid Properties, Second Edition offers a well-balanced, in-depth treatment of the fundamental concepts and practical aspects that encompass this vast discipline. New to the Second Edition Introductions to Stone II three-phase relative permeability model and unconventional oil and gas resources Discussions on low salinity water injection, saturated reservoirs and production trends of five reservoir fluids, impact of mud filtrate invasion and heavy organics on samples, and flow assurance problems due to solid components of petroleum Better plots for determining oil and water Corey exponents from relative permeability data Inclusion of Rachford-Rice flash function, Plateau equation, and skin effect Improved introduction to reservoir rock and fluid properties Practice problems covering porosity, combined matrix-channel and matrix-fracture permeability, radial flow equations, drilling muds on fluid saturation, wettability concepts, three-phase oil relative permeability, petroleum reservoir fluids, various phase behavior concepts, phase behavior of five reservoir fluids, and recombined fluid composition Detailed solved examples on absolute permeability, live reservoir fluid composition, true boiling point extended plus fractions properties, viscosity based on compositional data, and gas-liquid surface tension Accessible to anyone with an engineering background, the tex reveals the importance of understanding rock and fluid properties in petroleum engineering. Key literature references, mathematical expressions, and laboratory measurement techniques illustrate the correlations and influence between the various properties. Explaining how to acquire accurate and reliable data, the author describes coring and fluid sampling methods, issues related to handling samples for core analyses, and PVT studies. He also highlights core and phase behavior analysis using laboratory tests and calculations to elucidate a wide range of properties. Provides a scientific basis for the cleanup and for the assessment of oil spills Enables Non-scientific officers to understand the science they use on a daily basis Multi-disciplinary approach covering fields as diverse as biology, microbiology, chemistry, physics, oceanography and toxicology Covers the science o oil spills from risk analysis to cleanup and through the effects on the environment Includes case studies examinin and analyzing spills, such as Tasman Spirit oil spill on the Karachi Coast, and provides lessons to prevent these in the future A symbiosis of a brief description of physical fundamentals of the rock properties (based on typical experimental results and relevant theories and models) with a guide for practical use of different theoretical concepts. PVT properties are necessary for reservoir/well performance forecast and optimization. In absence of PVT laboratory measurements, finding the right correlation to estimate accurate PVT properties could be challenging. PVT Property Correlations: Selection and Estimation discusses techniques to properly calculate PVT properties from limited information. This book covers how to prepare PVT properties for dry gases, wet gases, gas condensates, volatile oils, black oils, and low gas-oil ration oils. It also explains the use of artificial neural network models in generating PVT properties. It presents numerous examples to explain step-by-step procedures in using techniques designed to deliver the most accurate PVT properties from correlations. Complimentary to this book is PVT correlation calculator software. Many of the techniques discussed in this book are available with the software. This book shows the importance of PVT data, provides practical tools to calculate PVT properties, and helps engineers select PVT correlations so they can model, optimize, and forecast their assets. Understand how to prepare PVT data in absence of laboratory reports for all fluid types Become equipped with a comprehensive list of PVT correlations and their applicability ranges Learn about ANN models and their applications in providing PVT data Become proficient in selecting best correlations and improving correlations results Elements of Petroleum Geology, Fourth Edition is a useful primer for geophysicists, geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area. It is also an excellent introductory text for a university course in petroleum geoscience. This updated edition includes new case studies on non-conventional exploration, including tight oil and shale gas exploration, as well as coverage of the impacts on petroleum geology on the environment. Sections on shale reservoirs, flow units and containers, IOR and EOR, giant petroleum provinces, halo reservoirs, and resource estimation methods are also expanded. Written by a preeminent petroleum geologist and sedimentologist with decades of petroleum

exploration in remote corners of the world Covers information pertinent to everyone working in the oil and gas industry, especially geophysicists, geologists and petroleum reservoir engineers Fully revised with updated references and expanded coverage of topics and new case studies A distinctive and up-to-date resource, this boo examines conventional and non-conventional processing techniques for crude oils. It also documents their effects on the composition and properties of petroleum products at the oil/solid, oil/air, oil/water and oil/metal interfaces. Focusing on surface activity, the author examines the undesira This edition expands its scope as a conveniently arranged petroleum fluids reference book for the practicing petroleum engineer and an authoritative college text. 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 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. Since the early 1970s, experts have recognized that petroleum pollutants were being discharged in marine waters worldwide, from oil spills, vessel operations, and land-based sources. Public attention to oil spills has forced improvements. Still, a considerable amount of oil is discharged yearly into sensitive coastal environments. Oil in the Sea provides the best available estimate of oil pollutant discharge into marine waters, including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent. Featuring close-up looks at the Exxon Valdez spill and other notable events, the book identifies important research questions and makes recommendations for better analysis ofâ€"and more effective measures againstâ€"pollutant discharge. The book discusses: Inputâ€"where the discharges come from, including the role of two-stroke engines used on recreational craft. Behavior or fateâ€"how oil is affected by processes such as evaporation as it moves through the marine environment. Effectsâ€"what we know about the effects of petroleum hydrocarbons on marine organisms and ecosystems. Providing a needed update on a proble of international importance, this book will be of interest to energy policy makers, industry officials and managers, engineers and researchers, and advocates for the marine environment. 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. With mounting pressure to extract petroleum from oil sands and

other unconventional sources, oil refineries must adapt their processing methods to handle increasingly heavy crude oils. Unlike traditional crude oils, the properties of heavier crude oils include higher viscosity, metal, salt, and acid content. This causes their interfacial properties to deteriorate, leading to problems such as sedimentation, foaming, emulsification, rust, and corrosion—all of which make the manufacture, transportation, and storage of petroleum products more difficult. Interfacial Properties of Petroleum Products examines conventional and non-conventional processing techniques for crude oils and documents their effects on the composition and properties of petroleum products at the oil/solid, oil/air, oil/water and oil/metal interfaces. Focusing on surface activity, the author examines the undesirable effects of processes such as solvent extraction desalting, dewaxing, catalyst deactivation, and hydroprocessing as well as trace element and water contamination. With each process, the author presents methods for improving interfacial properties, including the use of surface-active additives, demulsifiers, antifoaming agents, and corrosion/rust inhibitors. A distinctive and up-to-date source of materials published together for the first time, Interfacial Properties of Petroleum Products will help engineers design more cost-effective and resource-efficient processing methods for heavier crude oils, based on the properties of the crude oil extracted. Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork. In this first volume, the reader will find, collected and condensed, the information needed to characterize, analyze, and evaluate crude oils from different origins and their corresponding petroleum cuts as well. The characteristics and specifications of all the petroleum products along with their simplified process flowsheets are reviewed.Contents: 1. Composition of crude oils and petroleum products. 2. Fractionation and elemental analysis of crude oils and petroleum cuts. 3. Characterization of crude oils and petroleum fractions. 4. Methods for the calculation of hydrocarbon physical properties. 5. Characteristics of petroleum products for energy use (motor fuels - heating fuels). 6. Characteristics of non-fuel petroleum products. 7. Standards and specifications of petroleum products. 8. Evaluation of crude oils. 9. Additives for motor fuels and lubricants. 10. Introduction to refining. Appendices: Principal characteristics of pure components. Principal standard test methods for petroleum products. References. Index. Diluted bitumen has been transported by pipeline in the United States for more than 40 years, with the amount increasing recently as a result of improved extraction technologies and resulting increases in production and exportation of Canadian diluted bitumen. The increased importation of Canadian diluted bitumen to the United States has strained the existing pipeline capacity and contributed to the expansion of pipeline mileage over the past 5 years. Although rising North American crude oil production has resulted in greater transport of crude oil by rail or tanker, oil pipelines continue to deliver the vast majority of crude oil supplies to U.S. refineries. Spills of Diluted Bitumen from Pipelines examines the current state of knowledge and identifies the relevant properties and characteristics of the transport, fate, and effects of diluted bitumen and commonly transported crude oils when spilled in the environment. This report assesses whether the differences between properties of diluted bitumen and those of other commonly transported crude oils warrant modifications to the regulations governing spill response plans and cleanup. Given the nature of pipeline operations, response planning, and the oil industry, the recommendations outlined in this study are broadly applicable to other modes of transportation as well. A strong foundation in reservoir rock and fluid properties is the backbone of almost all the activities in the petroleum industry. Petroleum Reservoir Rock and Fluid Properties offers a reliable representation of fundamental concepts and practical aspects that encompass this vast subject area. The book provides up-to-date coverage of vari

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