

# Heavy Oil vs Light Oil

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	Heavy Oil	Light Oil
DEFINITION	Heavy oil or heavy crude oil is a highly viscous oil that cannot flow freely at room temperature	Light crude oil is a low viscous oil that can freely flow at room temperature
VISCOSITY	High	Low
SPECIFIC GRAVITY	High	Low
API GRAVITY	Low (about 20 degrees)	High (about 39.6 degrees)
PRICES	Comparatively low prices	Expenses
CHEMICAL COMPOSITION	Contain high molecular weight hydrocarbon compounds	Contain low molecular weight hydrocarbon compounds

# Heavy Versus Light Oil

**Emilie Sanchez**



## Heavy Versus Light Oil:

Energy Abstracts for Policy Analysis ,1986      *Economic Analysis of Oil and Gas Engineering Operations* Hussein K. Abdel-Aal,2021-02-25 Engineers seek solutions to problems and the economic viability of each potential solution is normally considered along with the technical merits This is typically true for the petroleum sector which includes the global processes of exploration production refining and transportation Decisions on an investment in any oil or gas field development are made on the basis of its value which is judged by a combination of a number of economic indicators Economic Analysis of Oil and Gas Engineering Operations focuses on economic treatment of petroleum engineering operations and serves as a helpful resource for making practical and profitable decisions in oil and gas field development Reflects major changes over the past decade or so in the oil and gas industry Provides thorough coverage of the use of economic analysis techniques in decision making in petroleum related projects Features real world cases and applications of economic analysis of various engineering problems encountered in petroleum operations Includes principles applicable to other engineering disciplines This work will be of value to practicing engineers and industry professionals managers and executives working in the petroleum industry who have the responsibility of planning and decision making as well as advanced students in petroleum and chemical engineering studying engineering economics petroleum economics and policy project evaluation and plant design

**Petrodiesel Fuels** Ozcan Konur,2021-05-05 This third volume of the handbook presents a representative sample of the population papers in the field of petrodiesel fuels Following the substantial public concerns on the adverse impact of the emissions from petrodiesel fuels on the environment and human health the research has intensified in the areas related to the reduction of these adverse effects Thus bioremediation of spills from crude oils and petrodiesel fuels at sea and soils as well as desulfurization of petrodiesel fuels have emerged as publicly important research areas Similarly the emissions from diesel fuel exhausts due to their adverse effects on both human health and environment have been researched more in recent years These emissions cover particulate emissions aerosol emissions and NOx emissions Research on the adverse impact of petrodiesel fuel exhaust emissions on human health has primarily progressed along the lines of respiratory illnesses cancer and other illnesses such as cardiovascular illnesses brain illnesses and reproductive system illnesses through human animal and in vitro studies It is clear that these illnesses caused by the petrodiesel fuel exhaust emissions have been one of the most significant reasons to develop alternative biodiesel fuels Part IX presents a representative sample of the population papers in the field of crude oils covering major research fronts It covers crude oil spills in general crude oil spills and their cleanup properties and removal of crude oils biodegradation of crude oil contaminated soils and crude oil recovery besides an overview paper Part X presents a representative sample of the population papers in the field of petrodiesel fuels in general covering major research fronts It covers combustion of biodiesel fuels in diesel engines bioremediation of biodiesel fuel contaminated soils biodiesel power generation and desulfurization of diesel fuels besides an overview paper Part XI presents

a representative sample of the population papers in the field of emissions from petrodiesel fuels covering major research fronts It covers diesel emission mitigation diesel particulate emissions and diesel NO<sub>x</sub> emissions besides an overview paper Part XII presents a representative sample of the population papers in the field of the health impact of the emissions from petrodiesel fuels covering major research fronts It covers respiratory illnesses cancer cardiovascular brain and reproductive system illnesses besides an overview paper This book will be useful to academics and professionals in the fields of Energy Fuels Public Environmental Occupational Health Pharmacology Pharmacy Immunology Respiratory System Allergy and Oncology Ozcan Konur is both a materials scientist and social scientist by training He has published around 200 journal papers book chapters and conference papers He has focused on the bioenergy and biofuels in recent years In 2018 he edited Bioenergy and Biofuels which brought together the work of over 30 experts in their respective field He also edited the Handbook of Algal Science Technology and Medicine with a strong section on the algal biofuels in 2020

**Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands** James G. Speight, 2016-02-24 Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands Second Edition explores the importance of enhanced oil recovery EOR and how it has grown in recent years thanks to the increased need to locate unconventional resources such as heavy oil and shale Unfortunately petroleum engineers and managers aren't always well versed in the enhancement methods that are available when needed or the most economically viable solution to maximize their reservoir's productivity This revised new edition presents all the current methods of recovery available including the pros and cons of each Expanded and updated as a great preliminary text for the newcomer to the industry or subject matter this must have EOR guide teaches all the basics needed including all thermal and non thermal methods along with discussions of viscosity sampling and the technologies surrounding offshore applications Enables users to quickly learn how to choose the most efficient recovery method for their reservoir while evaluating economic conditions Presents the differences between each method of recovery with newly added real world case studies from around the world Helps readers stay competitive with the growing need of extracting unconventional resources with new content on how these complex reservoirs interact with injected reservoir fluids

*Modeling of Processes and Reactors for Upgrading of Heavy Petroleum* Jorge Ancheyta, 2013-01-29 The worldwide petroleum industry is facing a dilemma the production level of heavy petroleum is higher than that of light petroleum Heavy crude oils possess high amounts of impurities sulfur nitrogen metals and asphaltenes as well as a high yield of residue with consequent low production of valuable distillates gasoline and diesel These characteristics in turn are responsible for the low price of heavy petroleum Additionally existing refineries are designed to process light crude oil and heavy oil cannot be refined to 100 percent One solution to this problem is the installation of plants for heavy oil upgrading before sending this raw material to a refinery Modeling of Processes and Reactors for Upgrading of Heavy Petroleum gives an up to date treatment of modeling of reactors employed in the main processes for heavy petroleum upgrading The book includes fundamental aspects such as

thermodynamics reaction kinetics chemistry and process variables Process schemes for each process are discussed in detail The author thoroughly describes the development of correlations reactor models and kinetic models with the aid of experimental data collected from different reaction scales The validation of modeling results is performed by comparison with experimental and commercial data taken from the literature or generated in various laboratory scale reactors Organized into three sections this book deals with general aspects of properties and upgrading of heavy oils describes the modeling of non catalytic processes as well as the modeling of catalytic processes Each chapter provides detailed experimental data explanations of how to determine model parameters and comparisons with reactor model predictions for different situations so that readers can adapt their own computer programs The book includes rigorous treatment of the different topics as well as the step by step description of model formulation and application It is not only an indispensable reference for professionals working in the development of reactor models for the petroleum industry but also a textbook for full courses in chemical reaction engineering The author would like to express his sincere appreciation to the Marcos Moshinsky Foundation for the financial support provided by means of a Ctedra de Investigaci n **Fossil Energy Update** ,1986

*Heavy and Extra-heavy Oil Upgrading Technologies* James G. Speight,2013-04-12 Unconventional reservoirs of oil and gas represent a huge additional global source of fossil fuels However there is much still to be done to improve techniques for their processing to make recovery and refining of these particular energy sources more cost effective Brief but readable *Heavy and Extra heavy Oil Upgrading Technologies* provide readers with a strategy for future production the up stream and upgrading the down stream The book provides the reader with an understandable overview of the chemistry and engineering behind the latest developments and technologies in the industry as well as the various environmental regulations Clear and rigorous *Heavy and Extra heavy Oil Upgrading Technologies* will prove tool for those scientists and engineers already engaged in fossil fuel science and technology as well as scientists non scientists engineers and non engineers who wish to gain a general overview or update of the science and technology of unconventional fossil fuels in general and upgrading technologies in particular The use of microorganisms and a number of physical methods such as ultrasound median microwave cold plasma electrokinetic and monocrystalline intermetallics etc will be discussed for the first time Overview of the chemistry engineering and technology of oil sands Microorganisms and a number of physical methods such as ultrasound median microwave cold plasma electrokinetic and monocrystalline intermetallics Evolving and new environmental regulations regarding oil sands production processes **Oil Engine Power** ,1926 **Petroleum Science and Technology** Chang Samuel Hsu,Paul R. Robinson,2019-07-02 Aimed at students and professionals this book covers every major aspect of petroleum the origin of fossil hydrocarbons and their chemical physical properties discovering hydrocarbon reserves recovering oil gas and bitumen purifying gas the chemical and physical characterization of crude oil refining crudes into fuels and lubricants and converting simple chemicals into solvents polymers fibers rubbers coatings and myriad other

products including pharmaceuticals Readers will learn how the industry operates from upstream exploration and production midstream transportation to downstream refining and manufacturing of finished products The book also contains unique chapters on midstream operations learnings from major accidents and safety environmental laws and regulations It builds on the authors previous books and teaching material from a highly rated course that is taught at the Florida A M University Florida State University USA     Understanding Petroleum Reservoirs John M. Cubitt, William A. England, Steve R. Larter, 2004     Maintenance of Permanently Installed Storage and Dispensing Systems for Petroleum and Unconventional Fuels United States. Department of the Air Force, 1970     *A Profile of the Oil and Gas Industry* Linda Herkenhoff, 2013-11-30 Oil and gas are important to every aspect of our economy yet the oil and gas industry is distinguished by its combination of increasing demands and decreasing discovery volumes and it is an industry shrouded in an environment of extremely volatile pricing Although the profits enjoyed by the oil and gas industry are enormous the industry remains one of the most capital intensive in a world where rising expenses continue to threaten to squeeze profit margins Geopolitics may continue to be the most important variable in maintaining existing assets and in successfully achieving new discoveries and carrying out their subsequent development But finding new oil and gas reserves is becoming more challenging and the places where hydrocarbons are being found are more remote Thus technology advances are also a key variable to enable exploration drilling and development to become economically feasible in some of these more difficult operating environments For the last century oil and gas additions have exceeded demand but has this industry now reached a peak oil situation Some experts argue we are on the cusp of maximum oil production while others suggest we are still about a decade away Natural gas demand however is rising at a slightly faster rate than oil Natural gas may be the immediate replacement fuel for oil as a source of clean and efficient electric power generation Three out of the top ten Fortune 500 companies were oil gas companies in 2011 This short introduction to the oil and gas industry will focus on history operations major companies outside market forces regulation and the current challenges the industry faces Such factors as finite natural resources the environment economics geopolitics and technology will all come into play in the narrative The book will demonstrate how the leaders of this industry former champions of progress are now coming under scrutiny and being depicted as the biggest culprits of environmental degradation Yet the industry is likely to continue to grow until some form of alternate fuels is developed The oil and gas industry will continue to have an enormous impact on life on the planet     110-foot U.S. Submarine Chaser United States. Navy Department. Bureau of Engineering, 1917     **Heavy Versus Light Oil** Ragaei El Mallakh, 1983     Auto-motor Journal , 1907     *Auto Motor Journal* Stanley Spooner, 1907     **A Profile of the Oil and Gas Industry, Second Edition** Linda Herkenhoff, 2018-04-16 We know that the people of Mesopotamia were using crude oil as a tar for building ships and houses as early as 3000 BC so it is not by any means a new industry but it is a volatile one Oil and gas are important to every aspect of our economy yet this industry is distinguished by its combination of increasing demands

and decreasing discovery volumes and it is an industry shrouded in an environment of extremely volatile pricing This book is a vital introduction to the oil and gas industry that focuses on history operations major companies outside market forces regulation and the current challenges the industry faces Such factors as finite natural resources the environment economics geopolitics and technology are also analyzed in detail The focus on oil and gas is likely to continue to grow until efficient environmentally safe alternate fuels become available And because it s woven with complex relationships that are ever changing this book is the best tool to have for a better understanding of this industry     *Elgar Concise Encyclopedia of Oil and Gas Law* Tina Soliman Hunter,Angela Dobb,Ernst Nordtveit,2024-11-08 The Elgar Concise Encyclopedia of Oil and Gas Law provides a comprehensive overview of the engineering and geological aspects of oil and gas activities placed within their legal context as well as legal aspects of these activities It focuses on exploration for and production of oil and gas incorporating experience based knowledge and the application of the law to technical issues     Specifications and Drawings of Patents Issued from the United States Patent Office United States. Patent Office,1903     *Methane Gas Hydrate* Ayhan Demirbas,2010-02-28 Gas hydrates represent one of the world s largest untapped reservoirs of energy and according to some estimates have the potential to meet global energy needs for the next thousand years Methane Gas Hydrate examines this potential by focusing on methane gas hydrate which is increasingly considered a significant source of energy Methane Gas Hydrate gives a general overview of natural gas before delving into the subject of gas hydrates in more detail and methane gas hydrate in particular As well as discussing methods of gas production it also discusses the safety and environmental concerns associated with the presence of natural gas hydrates ranging from their possible impact on the safety of conventional drilling operations to their influence on Earth s climate Methane Gas Hydrate is a useful reference on an increasingly popular energy source It contains valuable information for chemical engineers and researchers as well as for postgraduate students

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