
OILFIELD PROCESSING OF PETROLEUM

Volume One: Natural Gas

**Francis S. Manning, Ph.D., P.E.
and
Richard E. Thompson, Ph.D., P.E.**

Oilfield Processing Of Petroleum Vol 1 Natural Gas

James G. Speight



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Oilfield Processing of Petroleum - Volume 1 : Natural Gas Manning FS.,1991 **Oilfield Processing of Petroleum. - 1: Natural Gas** ,1991 Petroleum Refining Design and Applications Handbook, Volume 1 A. Kayode Coker,2018-09-05 There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists, engineers, technicians and operators to stay current. With so many changes over the last few decades in equipment and processes, petroleum refining is almost a living document constantly needing updating. With no new refineries being built, companies are spending their capital retooling and adding on to existing plants. Refineries are like small cities today as they grow bigger and bigger and more and more complex. A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes. This book is the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state of the art to the engineer, scientist or student. Useful as a textbook, this is also an excellent handy go to reference for the veteran engineer. A volume in a chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance. It is truly a must have for any practicing engineer or student in this area. Oilfield Processing of Petroleum: Crude oil Francis S. Manning, Richard E. Thompson (Ph.D.),1995 Covers process descriptions, design methods, operating procedures and troubleshooting in great detail. This text is the definitive source on its topic and contains numerous diagrams and appendices as well as case histories and review questions with numerical problems. *Oilfield Processing of Petroleum: Natural gas* Francis S. Manning, Richard E. Thompson (Ph.D.),1991 This book describes oilfield processing and handling of natural gas in a direct, easy to follow format. Process descriptions, design methods, operating procedures and troubleshooting are covered in detail. This hands on reference will be useful to field practitioners and is an ideal training text. Petroleum engineers will gain a better understanding of surface operations between the wellhead and the point of custody transfer or transport from the production facilities. **Advances in Natural Gas: Formation, Processing, and Applications. Volume 2: Natural Gas Sweetening** Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar,2024-02-10 *Advances in Natural Gas Formation, Processing and Applications* is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing, processing and purifying, producing valuable chemicals and energy. The volumes introduce transportation and storage challenges as well as hydrates formation, extraction and prevention. Volume 2, titled *Natural Gas Sweetening*, introduces in detail different natural gas sweetening methods. The book covers absorption with different solvents such as alkalis, amines, blends, ionic liquids, etc., which is one of the important sweetening techniques, as well as natural gas sweetening with adsorption based technologies utilizing various materials including zeolites, carbonaceous sorbents, metal oxides, etc. It is also

discusses membrane based processes with various types such as ionic liquid polymeric MOF mixed matrix dense metal membranes and includes novel technologies for sweetening natural gas by using plasma and supersonic separators Introduces natural gas sweetening concepts and challenges Describes various absorption and adsorption processes for natural gas sweetening Includes various membrane technologies for natural gas sweetening *Metallurgy and Corrosion Control in Oil and Gas Production* Robert Heidersbach,2010-12-01 This book is intended for engineers and related professionals in the oil and gas production industries It is intended for use by personnel with limited backgrounds in chemistry metallurgy and corrosion and will give them a general understanding of how and why corrosion occurs and the practical approaches to how the effects of corrosion can be mitigated It is also an asset to the entry level corrosion control professional who may have a theoretical background in metallurgy chemistry or a related field but who needs to understand the practical limitations of large scale industrial operations associated with oil and gas production While the may use by technicians and others with limited formal technical training it will be written on a level intended for use by engineers having had some exposure to college level chemistry and some familiarity with materials and engineering design *Energy Efficient Solvents for CO2 Capture by Gas-Liquid Absorption* Wojciech M. Budzianowski,2016-12-01 This book reviews and characterises promising single compound solvents solvent blends and advanced solvent systems suitable for CO2 capture applications using gas liquid absorption Focusing on energy efficient solvents with minimal adverse environmental impact the contributions included analyse the major technological advantages as well as research and development challenges of promising solvents and solvent systems in various sustainable CO2 capture applications It provides a valuable source of information for undergraduate and postgraduate students as well as for chemical engineers and energy specialists

Handbook of Offshore Oil and Gas Operations James G. Speight,2014-10-22 Handbook of Offshore Oil and Gas Operations is an authoritative source providing extensive up to date coverage of the technology used in the exploration drilling production and operations in an offshore setting Offshore oil and gas activity is growing at an expansive rate and this must have training guide covers the full spectrum including geology types of platforms exploration methods production and enhanced recovery methods pipelines and environmental management and impact specifically worldwide advances in study control and prevention of the industry s impact on the marine environment and its living resources In addition this book provides a go to glossary for quick reference Handbook of Offshore Oil and Gas Operations empowers oil and gas engineers and managers to understand and capture on one of the fastest growing markets in the energy sector today Quickly become familiar with the oil and gas offshore industry including deepwater operations Understand the full spectrum of the business including environmental impacts and future challenges Gain knowledge and exposure on critical standards and real world case studies **Deep Shale Oil and Gas** James G. Speight,2016-09-10 Natural gas and crude oil production from hydrocarbon rich deep shale formations is one of the most quickly expanding trends in domestic oil and gas exploration Vast

new natural gas and oil resources are being discovered every year across North America and one of those new resources comes from the development of deep shale formations typically located many thousands of feet below the surface of the Earth in tight low permeability formations Deep Shale Oil and Gas provides an introduction to shale gas resources as well as offer a basic understanding of the geomechanical properties of shale the need for hydraulic fracturing and an indication of shale gas processing The book also examines the issues regarding the nature of shale gas development the potential environmental impacts and the ability of the current regulatory structure to deal with these issues Deep Shale Oil and Gas delivers a useful reference that today s petroleum and natural gas engineer can use to make informed decisions about meeting and managing the challenges they may face in the development of these resources Clarifies all the basic information needed to quickly understand today s deeper shale oil and gas industry horizontal drilling fracture fluids chemicals needed and completions Addresses critical coverage on water treatment in shale and important and evolving technology Practical handbook with real world case shale plays discussed especially the up and coming deeper areas of shale development *Natural Gas* James G. Speight, 2007-10-01 Natural gas represents nearly one quarter of the world s energy resources More than half of American homes rely on it as their main heating fuel It serves as the raw material necessary in everyday paints plastics medicines and explosives It produces the cleanest of all fossil fuels It is natural gas and everybody should acquire a basic understanding of it This valuable easy to use reference supplies all the basics that every person should know about the natural gas industry Introductory engineers managers and analysts will benefit from this informative practical handbook Natural gas remains a vital component of all energy sources and with an increasing demand for information on this useful energy source *Natural Gas A Basic Handbook* is an essential tool for anyone involved in the energy industry Characterization and Properties of Petroleum Fractions M. R. Riazi, 2005 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 *Surfactants in Upstream E&P* Theis

Solling, Muhammad Shahzad Kamal, Syed M. Shakil Hussain, 2021-06-19 This edited book explores the use of surfactants in upstream exploration and production E P It provides a molecular mechanistic and application based approach to the topic utilising contributions from the leading researchers in the field of organic surfactant chemistry and surfactant chemistry for upstream E P The book covers a wide range of problems in enhanced oil recovery and surfactant chemistry which have a large importance in drilling fracking hydrate inhibition and conformance It begins by discussing the fundamentals of surfactants and their synthesis It then moves on to present their applicability to a variety of situations such as gas injections shale swelling inhibition and acid stimulation This book presents research in an evolving field making it interesting to academics postgraduate students and experts within the field of oil and gas

Advances in Natural Gas: Formation, Processing, and Applications. Volume 7: Natural Gas Products and Uses Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-04-17 Advances in Natural Gas Formation Processing and Applications is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 7 titled Natural Gas Products and Uses comprehensively discusses natural gas conversion and applications for producing high value chemicals and energy which are accompanied with related environmental challenges and economic analysis The book covers various methods for producing valuable materials such as synthesis and fuel gases alkanes aromatics sulphurs etc and introduces power and electricity generation as well as heat production from natural gas and their applications on future energy systems Introduces various chemicals produced from natural gas Describes power and energy generation methods from natural gas Discusses cogeneration trigeneration and other techniques for effective integration of natural gas production with energy systems

Gas Purification Arthur L Kohl, Richard Nielsen, 1997-08-28 This massively updated and expanded fifth edition is the most complete authoritative engineering treatment of the dehydration and gas purification processes used in industry today Of great value to design and operations engineers it gives practical process and equipment design descriptions basic data plant performance results and other detailed information on gas purification processes and hardware This latest edition incorporates all significant advances in the field since 1985 You will find major new chapters on the rapidly expanding technologies of nitrogen oxide control with discussions of regulatory requirements and available processes absorption in physical solvents covering single component and mixed solvent systems and membrane permeation with emphasis on the gas purification applications of membrane units In addition new sections cover areas of strong current interest particularly liquid hydrocarbon treating Claus plant tail gas treating thermal oxidation of volatile organic compounds and sulfur scavenging processes This volume brings you expanded coverage of alkanolamines for hydrogen sulfide and carbon dioxide removal the removal and use of ammonia in gas purification the use of alkaline salt

solutions for acid gas removal and the use of water to absorb gas impurities The basic technologies and all significant advances in the following areas are thoroughly described sulfur dioxide removal and recovery processes processes for converting hydrogen sulfide to sulfur liquid phase oxidation processes for hydrogen sulfide removal the absorption of water vapor by dehydrating solutions gas dehydration and purification by adsorption and the catalytic and thermal conversion of gas impurities Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2010-07-19 The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E Ludwig's classic chemical engineering process design manual Volume Two focuses on distillation and packed towers and presents the methods and fundamentals of plant design along with supplemental mechanical and related data nomographs data charts and heuristics The Fourth Edition is significantly expanded and updated with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives A true application driven book providing clarity and easy access to essential process plant data and design information Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new material on distillation process performance complex mixture fractionating gas processing dehydration hydrocarbon absorption and stripping enhanced distillation types **Environmental Impacts from the Development of Unconventional Oil and Gas**

Reserves John Stolz, Daniel Bain, Michael Griffin, 2022-08-18 The development of unconventional oil and gas shales using hydraulic fracturing and directional drilling is currently a focal point of energy and climate change discussions While this technology has provided access to substantial reserves of oil and gas the need for large quantities of water emissions and infrastructure raises concerns over the environmental impacts Written by an international consortium of experts this book provides a comprehensive overview of the extraction from unconventional reservoirs providing clear explanations of the technology and processes involved Each chapter is devoted to different aspects including global reserves the status of their development and regulatory framework water management and contamination air quality earthquakes radioactivity isotope geochemistry microbiology and climate change Case studies present baseline studies water monitoring efforts and habitat destruction This book is accessible to a wide audience from academics to industry professionals and policy makers interested in environmental pollution and petroleum exploration **Petroleum Abstracts** , 1992 **Carbon Dioxide Sequestration and Related Technologies** Ying Wu, John J. Carroll, Zhimin Du, 2011-07-05 Carbon dioxide sequestration is a technology that is being explored to curb the anthropogenic emission of CO₂ into the atmosphere Carbon dioxide has been implicated in the global climate change and reducing them is a potential solution The injection of carbon dioxide for enhanced oil recovery EOR has the dual benefit of sequestering the CO₂ and extending the life of some older fields Sequestering CO₂ and EOR have many shared elements that make them comparable This volume presents some of the latest information on these processes covering physical properties operations design reservoir engineering and geochemistry for AGI and the related

technologies *26th European Symposium on Computer Aided Process Engineering* ,2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event

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