

Natural Gas Liquids A Nontechnical Guide

Georgia Tech Energy 101: Energy module 2, Lesson 9: Natural Gas Liquids LNG Nontechnical Set Natural Gas Liquids (NGLs) What are natural gas liquids, and what happens if they leak? Natural Gas Liquids | TOP Energy Training Application Training: Natural Gas Liquid (NGL) Natural Gas Liquids | NGL | Glossary of terms Pavilion8 Natural Gas Liquids Energy and Life - week 2 -Natural Gas Liquids Natural Gas Liquids Natural Gas Liquids NGLs Natural Gas Liquides Natural Gas 101 Natural Gas Liquids Dirty Little Secrets Key Takeaways Energy 101 - 3.1 Natural Gas Liquids Natural Gas Liquids - The less loved stepchild of hydrocarbons EBF 301 Processing and Natural Gas Liquids (NGLs) Unlocking the Worth of Natural Gas Liquids Optimal Transportation Methods for Natural Gas Liquids: A Comprehensive Guide Natural Gas Liquids Oilfield Processing of Petroleum: Natural gas A Nontechnical Guide Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production Natural Gas Production Engineering Oil and Gas Pipelines in Nontechnical Language, 2nd Edition A Bibliography of Non-technical Literature on Energy Fundamentals of Natural Gas Technology and Transformation Guide to RRB NTPC Non Technical Recruitment Exam 2nd Edition The Climate Crisis: A Moderate Approach to the Energy Debate Handbook of Natural Gas Transmission and Processing A Nontechnical Guide How Oil and Gas Can Be Environmentally Sustainable Sustainable Alternative Syngas Fuel Green Petroleum Oil & Gas Production in Nontechnical Language Fuel for a Changing World : a Nontechnical Guide Commodity Option Pricing Deepwater Petroleum Exploration & Production Fundamentals of Petroleum Refining product guide SUMMER 2008

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Natural Gas Liquids Pennwell Corporation

This authoritative text has been re-written and expanded to include additional chapters on methyl tertiary butyl ether and higher alcohols. Read it cover to cover, chapter by chapter as the subject comes up in your business, use it as an encyclopedia, or as a primer on petrochemical economics. Packed with diagrams and tables, it is the only source you will need to get a clear understanding of this complex topic. Each chapter includes exercises and 'in a nutshell' chapter reviews. Contents: What you need to know about organic chemistry Benzene Toluene and the xylenes Cyclohexane Olefins plants, ethylene, and propylene The hydrocarbon family Cumene and phenol Ethylbenzene and styrene Ethylene dichloride and vinyl chloride Propylene oxide and propylene glycol Methanol and synthesis gas Other alcohols Formaldehyde and acetaldehyde Ketones Acids Acrylonitrile, acrylic acid, and acrylates Maleic anhydride Alpha olefins Nature of polymers Thermoplastics Resins and fibers

Oilfield Processing of Petroleum: Natural gas Pennwell Corporation

An overview of the natural gas process from wellhead to burnertip, from exploration to futures trading, and the latest issues of co-generation and other product use.

A Nontechnical Guide National Academies Press

Used by corporate training departments and colleges worldwide, this is the most complete upstream guide available. Contents: The nature of gas and oil The Earth's crust - where we find time Deformation of sedimentary rocks Sandstone reservoir rocks Carbonate reservoir rocks Sedimentary rock distribution Mapping Ocean environment and plate tectonics Source rocks, generation, migration, and accumulation of petroleum Petroleum traps Petroleum exploration - geological and geochemical Petroleum exploration - geophysical Drilling preliminaries Drilling a well - the mechanics Drilling problems Drilling techniques Evaluating a well Completing a well Surface treatment and storage Offshore drilling and production Workover Reservoir mechanics

Petroleum production Reserves Improved oil recovery.

Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production Pennwell Books

This set gives a broad introductory overview of the entire petroleum marine industry and how it is affected by the world petroleum markets. Volume 1: Oil: An introduction to shipping Why tanker owners? Pre-Onassis era Onassis era Post-Onassis era - creating and dealing with the surplus Refinery operation Tanker demand Tanker design and employment patterns Forecasting tanker rates Oil pollution liability LGP carriers LNG carriers.

Natural Gas Production Engineering CRC Press

This text explains the how's and why's of the pipeline industry. It was written for those not directly involved in pipeline operations - legal, supply, accounting, finance, and human resource specialists, and people who service and sell equipment to pipeline companies. But even engineers and expert pipeliners can gain insights from the book's depth and broad perspective.

Oil and Gas Pipelines in Nontechnical Language, 2nd Edition Elsevier

Written by an internationally-recognized team of natural gas industry experts, the fourth edition of Handbook of Natural Gas Transmission and Processing is a unique, well-researched, and comprehensive work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes, and recent developments in treating super-rich gas, high CO2 content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's unconventional gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions. The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today's environmental and sustainability requirement while delivering acceptable project economics. Covers all technical and operational aspects of natural gas transmission and processing. Provides pivotal updates on the latest technologies, applications, and solutions. Helps to understand today's natural gas resources, and the best gas processing technologies. Offers design optimization and advice on the design and

operation of gas plants.

A Bibliography of Non-technical Literature on Energy New Society Publishers

Oil, Gas, and Mining: A Sourcebook for Understanding the Extractive Industries provides developing countries with a technical understanding and practical options around oil, gas, and mining sector development issues. A central premise of the Sourcebook is that good technical knowledge can better inform political, economic, and social choices with respect to sector development and the related risks and opportunities. The guidance provided by the Sourcebook assumes a broad set of overarching principles, all centered on good governance and directed at achieving positive and broadly based sustainable development outcomes. This Sourcebook is rich in presenting options to challenges, on the understanding that contexts and needs vary, and that there is much to be gained from appreciating the lessons learned from a broad set of experiences.

Fundamentals of Natural Gas Natural Gas LiquidsA Nontechnical Guide

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 process simulators for showing trends and simulation case studies Relates processing to planning and management to give an integrated picture of refining

Technology and Transformation McGraw Hill Professional

A totally understandable view of pipeline inception, planning, construction, start-up, and operation.

Guide to RRB NTPC Non Technical Recruitment Exam 2nd Edition John Wiley & Sons
 "The information found in Dry Gas Seals Handbook will help you make informed decisions regarding the application, operation, and maintenance of dry gas seals. This book presents a complete guide to the technology, from the principle of gas seal operation to "lessons learned" from actual field experience."--BOOK JACKET.

The Climate Crisis: A Moderate Approach to the Energy Debate Gulf Professional Publishing

This how to book covers the various mechanics of natural gas trading, including the physical (cash) market for natural gas production, transportation, distribution, and consumption. It has been 23 years since Trading Natural Gas: A Nontechnical Guide was released, and many things have changed: electronic trading, power market deregulation, fracking and the shale revolution, pipelines reversing flow patterns, and LNG exports from the United States. In this second edition, the author addresses these changes, beginning with a deeper dive into the natural gas market fundamentals of supply, demand, storage, and transportation, maintaining a focus on the relationship to market pricing. Following discussion of the mechanics of trading physical natural gas, the heart of the text remains a study of financial derivative products specific to natural gas trading, presented through definitions and trading examples. Many of these products and concepts are still current and have been refreshed and kept intact. New material on the role of natural gas in the power market as it relates to fuel-switching and economic dispatch, as well as a survey of the global LNG market and US exports, is included in this second edition to bring in two of the biggest factors influencing prices in today's market. Additional statistics, tables, graphs and suggested spreadsheet templates have been provided throughout the book to help visualize many of the discussions on data. Features and Benefits Supply / Demand Fundamentals Market overviews (financial and physical) Contracts Derivatives Technical Analysis Risk Controls Audience Field level personnel Management Energy lending and finance professionals Anyone who seeks to understand how, or relies upon, energy markets Students

HANDBOOK OF NATURAL GAS TRANSMISSION AND PROCESSING

Pennwell Corporation

Solid-Liquid Separation, Third Edition reviews the equipment and principles involved in the separation of solids and liquids from a suspension. Some important aspects of solid-liquid separation such as washing, flotation, membrane separation, and magnetic separation are discussed. This book is comprised of 23 chapters and begins with an overview of solid-liquid separation processes and the principles involved, including flotation, gravity sedimentation, cake filtration, and deep bed filtration. The following chapters focus on the characterization of particles suspended in liquids; the efficiency of separation of particles from fluids; coagulation and flocculation; gravity thickening; and the operating characteristics, optimum design criteria, and applications of hydrocyclones. The reader is also introduced to various solid-liquid separation processes such as centrifugal sedimentation, screening, and filtration, along with the use of filter aids. Countercurrent washing of solids and problems associated with fine particle recycling are also

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considered. The final chapter is devoted to the thermodynamics of particle-fluid interaction. This monograph will be useful to chemical engineers and process engineers, particularly those in plant operation, plant design, or equipment testing and commissioning. It can also be used as a textbook for both undergraduate and postgraduate students.

A NONTECHNICAL GUIDE

Pennwell Corporation

Joseph Hilyard's timely new book provides a broad perspective on the oil and gas industry, with primary attention to the United States. It takes the reader on a tour of the operations used to find and evaluate resources, and then to produce, store and deliver oil and gas. The book's main focus is primarily on the equipment and processes used in exploring new resources; evaluating promising formations; drilling wells; managing oil and gas production; converting oil and gas into products; and transporting oil and gas. Separate chapters address the evolution and current structure of the petroleum industry; oil and gas trading; and challenges likely to face the oil and gas industry in coming years. Three appendices define key industry terminology; suggest further reading on selected topics; and identify organizations that can provide more information.

How Oil and Gas Can Be Environmentally Sustainable Pennwell Books

Transmission Pipeline Calculations and Simulations Manual is a valuable time- and money-saving tool to quickly pinpoint the essential formulae, equations, and calculations needed for transmission pipeline routing and construction decisions. The manual's three-part treatment starts with gas and petroleum data tables, followed by self-contained chapters concerning applications. Case studies at the end of each chapter provide practical experience for problem solving. Topics in this book include pressure and temperature profile of natural gas pipelines, how to size pipelines for specified flow rate and pressure limitations, and calculating the locations and HP of compressor stations and pumping stations on long distance pipelines. Case studies are based on the author's personal field experiences Component to system level coverage Save time and money designing pipe routes well Design and verify piping systems before going to the field Increase design accuracy and systems effectiveness

Sustainable Alternative Syngas Fuel Pennwell Corporation

Gas Usage and Value addresses issues concerned with the development and sale of natural gas resources. The text overviews the world's gas reserves and outlines the principal issues concerning composition and the cost of producing well head gas to make a specification product or extract particular components; operation and cost of gas plants; and the cost of transporting the gas to an end-user. Separate chapters deal with the use of gas in the downstream process industries. Gas usages for various technologies are described and alternatives are critically compared. Costs for the downstream process industries are described on a self-consistent basis that allows comparison of alternatives. Estimates are presented for each technology on the cost of production as the gas price changes. Case studies are included to illustrate variations or specific points of relevance. Reader benefits: - Provides a handbook for performing cost-benefit estimates for gas usage and for pricing gas to the downstream processor - Describes all of the principal uses of gas, the quantity and quality of gas required, descriptions of the major issues, and key players for specific technologies - Can be used as a teaching text for gas development and usage.

GREEN PETROLEUM

Pennwell Corporation

Over the last several decades, the petroleum industry has experienced significant changes in

resource availability, petro-politics, and technological advancements dictated by the changing quality of refinery feedstocks. However, the dependence on fossil fuels as the primary energy source has remained unchanged. Refinery Feedstocks addresses the problems of changing feedstock availability and properties; the refining process; and solids deposition during refining. This book will take the reader through the various steps that are necessary for crude oil evaluation and refining including the potential for the use of coal liquids, shale oil, and non-fossil fuel materials (biomass) as refinery feedstocks. Other features: Describes the various types of crude oil and includes a discussion of extra heavy oil and tar sand bitumen Includes basic properties and specifications of crude oil and the significance in refinery operations This book is a handy reference for engineers, scientists, and students who want an update on crude oil refining and on the direction the industry must take to assure the refinability of various feedstocks and the efficiency of the refining processes in the next fifty years. Non-technical readers, with help from the extensive glossary, will also benefit from reading this book.

OIL & GAS PRODUCTION IN NONTECHNICAL LANGUAGE

Pennwell Corporation

There is much intense critical activity from researchers interested in the 18th century and women's studies, and as a result many of Haywood's works are now coming back into print. This is a comprehensive bibliography of Haywood, that lists newly discovered work and gives the history of lost works.

FUEL FOR A CHANGING WORLD : A NONTECHNICAL GUIDE

MARS PUBLISHING

Can "green petroleum" reverse global warming and bring down highgasoline prices? Written in non-technical language for the layperson, this book investigates and details how the oil and gas industry can "go green" with new processes and technologies, thus bringing the world's most important industry closer to environmental and economic sustainability.

Commodity Option Pricing Pennwell Corporation

"Consumption and demand for natural gas rises annually throughout the world. Finding, drilling, extracting, processing and transporting natural gas remains a demanding challenge. This new book presents the quintessential guide for reservoir engineers, production engineers, production geologists, and more."--BOOK JACKET.

Deepwater Petroleum Exploration & Production Gulf Professional Publishing

The development and use of sustainable and alternative fuels (syngas, biogas, biodiesel, bio-oil, hydrogen) derived from sources other than petroleum is needed due to the limited fossil fuel resources, the need for reduction of atmospheric greenhouse gas emissions, energy security, and to meet the future high energy demand due to population growth. New alternative fuels that can be produced locally and derived from renewable sources will be more sustainable compared to fossil fuels. Alternative and renewable fuels can be produced using different thermochemical and bio-chemical processes. Gasification is a thermochemical process used to produce syngas fuel (mainly hydrogen and carbon dioxide) from renewable (biomass) and conventional (coal) sources. The syngas fuels produced from the gasification process can be used for different applications: power generation (combustion of syngas fuel in gas turbine engines), heating, and transportation (internal combustion engines). This book intends to provide the reader with an overview of the current technologies, methods, and strategies of syngas fuel production, characterization, and application.