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In the Middle East, new petrochemical investments are increasingly based on liquid feedstocks such as naphtha and gasoil, or mixed gas/liquid feedstock, instead of exclusively on gas. In North America, the feedstock advantage is expected to start to erode in the next decade as new ethylene cracking capacity and export opportunities increase demand for ethane and propane, which could drive prices up.

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The global petrochemicals (petchem) industry is experiencing a transformation due to upstream oil and gas sector changes for base chemicals capacities. Shifts in the global petrochemicals industry (petchem) are changing the way base chemicals capacities are added and utilized.

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The Board of Oil & Natural Gas Corpn at its meeting held on 06 November 2020 has approved sale of 1,24,66,53,746 equity shares of Rs.10/- each representing 48.998% equity stake in ONGC Mangalore Petrochemicals (OMPL), to Mangalore Refinery & Petrochemicals (MRPL), a subsidiary of the Company and thereby exiting from OMPL.

Petroleum refining and the petrochemical industry play an important role in the current world economy. They provide the platform to convert basic raw materials into many essential products, ranging from transportation fuels (such as gasoline, jet fuel, diesel, and gas oil) to basic and intermediate materials for petrochemical industries and many other valuable chemical products. Advanced Catalysis Processes in Petrochemicals and Petroleum Refining: Emerging Research and Opportunities is an essential comprehensive research publication that provides knowledge on refining processes that could be integrated by the petrochemical industry and discusses how to integrate refining products with petrochemical industries through the use of new technologies. Featuring a range of topics such as biofuel production, environmental sustainability, and biorefineries, this book is ideal for engineers, chemists, industry professionals, policymakers, researchers, academicians, and petrochemical companies.

Different approaches, evaluations, techniques and advanced studies on processing and production of oil, gas and petrochemicals have been included in this book. Diverse range of topics such as uses of petrochemicals, their production and refinement, natural gas, etc. have been covered in this text in a comprehensive manner. With state-of-the-art inputs by acclaimed experts of this field, this book targets students and professionals alike. It will help new researchers by foregrounding their knowledge in this branch.

With the oil and gas industry facing new challenges--deeper offshore installations, more unconventional oil and gas transporting through pipelines, and refinery equipment processing these opportunity feedstocks--new corrosion challenges are appearing, and the oil and gas industry's infrastructure is only as good as the quality of protection provided and maintained. Essentials of Coating, Painting, and Linings for the Oil, Gas, and Petrochemical Industries is the first guide of its kind to directly deliver the necessary information to prevent and control corrosion for the components on the offshore rig, pipelines underground and petrochemical equipment. Written as a companion to Cathodic Corrosion Protection Systems, this must-have training tool supplies the oil and gas engineer, inspector and manager with the full picture of corrosion prevention methods specifically catered for oil and gas services. Packed with real world case studies, critical qualifications, inspection criteria, suggested procedure tests, and application methods, Essentials of Coating, Painting, and Linings for the Oil, Gas and Petrochemical Industries is a required straightforward reference for any oil and gas engineer and manager. Understand how to select, prime and apply the right coating system for various oil and gas equipment and pipelines - both upstream and downstream Train personnel with listed requirements, evaluation material and preparation guides, including important environmental compliance considerations Improve the quality of your equipment, refinery and pipeline with information on repair and rejection principles

A thorough introduction to environmental monitoring in the oil and gas industry Analytical Techniques in the Oil and Gas Industry for Environmental Monitoring examines the analytical side of the oil and gas industry as it also provides an overall introduction to the industry. You'll discover how oil and natural gas are sourced, refined, and processed. You can learn about what's produced from oil and natural gas, and why evaluating these sourced resources is important. The book discusses the conventional analyses for oil and natural gas feeds, along with their limitations. It offers detailed descriptions of advanced analytical techniques that are commercially available, plus explanations of gas and oil industry equipment and instrumentation. You'll find technique descriptions supplemented with a list of references as well as with real-life application examples. With this book as a reference, you can prepare to apply specific analytical methods in your organization's lab environment. Analytical Techniques can also serve as your comprehensive resource on key techniques in the characterization of oil and gas samples, within both refinery and environmental contexts. Understand of the scope of oil and gas industry techniques available Consider the benefits and limitations of each available process Prepare for applying analytical techniques in your lab See real examples and a list of references for each technique Read descriptions of off-line analytics, as well as on-line and process applications As a chemist, engineer, instructor, or student, this book will also expand your awareness of the role these techniques have in environmental monitoring and environmental impact assessments.

Unravels fundamental engineering for the treatment, recovery, and disposal of solid waste, sludge and wastewater in the petroleum, chemical, and unconventional oil and gas processing industries This new edition unravels essential requirements for the process design and engineering of the equipment and facilities pertaining to waste management for gas refineries, chemical plants, oil terminals, and petrochemical plants. Updated throughout, Waste Management in the Chemical and Petroleum Industries, Second Edition offers chapters on wastewater treatment; physical unit operations; chemical treatment; biological treatment; and wastewater treatment in unconventional oil and gas industries. It also covers wastewater sewer systems; sewage treatment; and solid waste treatment and disposal. New topics include: water pollution terminals the design procedure for effluent water pollution control spill prevention and control groundwater pollution

control wastewater pollution control in crude oil terminals Information on the source of polymeric plants examination of water and wastewater radioactivity soil pollution pipeline leak consequence evaluation Waste Management in the Chemical and Petroleum Industries, Second Edition is an ideal text for researchers and advanced students in chemical, petroleum, and environmental fields, as well as for those in civil engineering.

A practical treatment of power system design within the oil, gas, petrochemical and offshore industries. These have significantly different characteristics to large-scale power generation and long distance public utility industries. Developed from a series of lectures on electrical power systems given to oil company staff and university students, Sheldrake's work provides a careful balance between sufficient mathematical theory and comprehensive practical application knowledge. Features of the text include: Comprehensive handbook detailing the application of electrical engineering to the oil, gas and petrochemical industries Practical guidance to the electrical systems equipment used on off-shore production platforms, drilling rigs, pipelines, refineries and chemical plants Summaries of the necessary theories behind the design together with practical guidance on selecting the correct electrical equipment and systems required Presents numerous 'rule of thumb' examples enabling quick and accurate estimates to be made Provides worked examples to demonstrate the topic with practical parameters and data Each chapter contains initial revision and reference sections prior to concentrating on the practical aspects of power engineering including the use of computer modelling Offers numerous references to other texts, published papers and international standards for guidance and as sources of further reading material Presents over 35 years of experience in one self-contained reference Comprehensive appendices include lists of abbreviations in common use, relevant international standards and conversion factors for units of measure An essential reference for electrical engineering designers, operations and maintenance engineers and technicians.

A comprehensive textbook on petrochemical conversion processes for petroleum and natural gas fractions as produced by refinery operations This innovative textbook provides essential links between the chemical sciences and chemical technology, between petrochemistry and hydrocarbon technology. The book brings alive key concepts forming the basis of chemical technology and presents a solid background for innovative process development. In all chapters, the processes described are accompanied by simplified flow schemes, encouraging students to think in terms of conceptual process designs. Petrochemistry: Petrochemical Processing, Hydrocarbon Technology and Green Engineering introduces students to a variety of topics related to the petrochemical industry, hydrocarbon processing, fossil fuel resources, as well as fuels and chemicals conversion. The first chapter covers the fundamentals and principals for designing several of the processes in the book, including discussions on thermodynamics, chemical kinetics, reactor calculations, and industrial catalysts. The following chapters address recent advances in hydrocarbon technology, energy technology, and sources of hydrocarbons. The book then goes on to discuss the petrochemical industry based on four basic pillars, all derived from petroleum and natural gas: Production of lower alkenes; other sources of lower alkenes; petrochemicals from C2-C3 alkenes Production of BTX aromatics; chemicals from BTX aromatics C1 technology Diversification of petrochemicals The growing importance of sustainable technology, process intensification and addressing greenhouse gas emissions is reflected throughout the book. Written for advanced students working in the areas of petrochemistry, hydrocarbon technology, natural gas, energy materials and technologies, alternative fuels, and recycling technologies the book is also a valuable reference for industrial practitioners in the oil and gas industry.

The term "local content" refers to the value petroleum activities bring to a country beyond the direct revenues from hydrocarbons. Job creation, taxes and fees, and the infusion of talent and education all contribute to local content. With the insight of experts from around the world, this text explores the policies of more than two dozen countries, each with its own approach. It also discusses historical context and how countries could learn from the best and the worst of local content development. Host countries that remain assertive in local content policies also have a better track record in tackling other associated problems. These include economic and social issues as well as also the development of a diverse and well-educated local work force. This text is a valuable resource for legal counsels (in-house and external), governmental authorities, business development managers, economists, NGOs, and academics.

"Petroleum refining and the petrochemical industry play an important role in the current world economy. They provide the platform to convert basic raw materials into many essential products, ranging from transportation fuels (such as gasoline, jet fuel, diesel, and gas oil) to basic and intermediate materials for petrochemical industries and many other valuable chemical products. Advanced Catalysis Processes in Petrochemicals and Petroleum Refining: Emerging Research and Opportunities is an essential comprehensive research publication that provides knowledge on refining processes that could be integrated by the petrochemical industry and discusses how to integrate refining products with petrochemical industries through the use of new technologies. Featuring a range of topics such as biofuel production, environmental sustainability, and biorefineries, this book is ideal for engineers, chemists, industry professionals, policymakers, researchers, academicians, and petrochemical companies."--Provided by publisher.

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