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This extensively updated second edition of the already valuable reference targets research chemists and engineers who have chosen a career in the complex and essential petroleum industry, as well as other professionals just entering the industry who seek a comprehensive and accessible resource on petroleum processing. The handbook describes and discusses the key components and processes that make up the petroleum refining industry. Beginning with the basics of crude oils and their nature, it continues with the commercial products derived from refining and with related issues concerning their environmental impact. More in depth coverage of many topics previously covered in the first edition, such as hydraulic fracturing or fracking as it is often termed, help ensure this reference remains a relevant and up-to-date resource. At its core is a complete overview of the processes that make up a modern refinery, plus a brief history of the development of processes. Also described in detail are design techniques, operations and in the case of catalytic units, the chemistry of the reaction routes. These discussions are supported by calculation procedures and examples, which enable readers to use today ' s simulation-software packages. The handbook also covers off-sites and utilities, as well as

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environmental and safety aspects relevant to the industry. The chapter on refinery planning covers both operational planning and the decision making procedures for new or revamped processes. Major equipment used in the industry is reviewed along with details and examples of the process specifications for each. An extensive glossary and dictionary of the terms and expressions used in petroleum refining, plus appendices supplying data such as converging factors and selected crude oil assays, as well as an example of optimizing a refinery configuration using linear programming are all included to aid the reader. The 2nd edition of the Handbook of Petroleum Processing is an indispensable desk reference for chemists and engineers as well as an essential part of the libraries of universities with a chemical engineering faculty and oil refineries and engineering firms performing support functions or construction.

This book on well test analysis, and the use of advanced interpretation models is volume 3 in the series Handbook of Petroleum Exploration and Production. The chapters in the book are: Principles of Transient Testing, Analysis Methods, Wellbore Conditions, Effect of Reservoir Heterogeneities on Well Responses, Effect of Reservoir Boundaries on Well Responses, Multiple Well Testing, Application to Gas Reservoirs, Application to Multiphase Reservoirs, Special Tests, Practical Aspects of Well Test Interpretation.

Written by an author with over 38 years of experience in the chemical and petrochemical process industry, this handbook will present an analysis of the process

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steps used to produce industrial hydrocarbons from various raw materials. It is the first book to offer a thorough analysis of external factors effecting production such as: cost, availability and environmental legislation. An A-Z list of raw materials and their properties are presented along with a commentary regarding their cost and availability. Specific processing operations described in the book include: distillation, thermal cracking and coking, catalytic methods, hydroprocesses, thermal and catalytic reforming, isomerization, alkylation processes, polymerization processes, solvent processes, water removal, fractionation and acid gas removal. Flow diagrams and descriptions of more than 250 leading-edge process technologies An analysis of chemical reactions and process steps that are required to produce chemicals from various raw materials Properties, availability and environmental impact of various raw materials used in hydrocarbon processing

A clear presentation of the various aspects of petroleum analysis Petroleum exhibits a wide range of physical properties. Numerous tests have been and continue to be developed to provide an indication of the means by which a particular feedstock should be processed. An initial inspection of the nature of petroleum provides deductions about the most logical means of refining and classifying. Handbook of Petroleum Analysis is a single, comprehensive source that describes the application and interpretation of data resulting from various test methods for petroleum feedstocks and products. The need for the application

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of analytical techniques to petroleum has increased over the past three decades due to changes in feedstock composition. Handbook of Petroleum Analysis deals with the various aspects of petroleum analysis while providing a detailed explanation of the necessary standard tests and procedures that are applicable to feedstocks. The material also reviews the application of new methods for determining instability and incompatibility, focusing on the analytical methods related to environmental regulations. Most importantly, the book provides details of the meanings of the various test results and how they might be applied to predict feedstock behavior. Where pertinent, new tests that are not yet accepted as standardized are described. Topics covered in Handbook of Petroleum Analysis include: ? Chemical composition ? Physical, thermal, electrical, and optical property testing methods ? Spectroscopic, chemical, fractionation, and chromatographic methods ? Molecular weight ? Use of the data (i.e., mapping and predictability) Handbook of Petroleum Analysis promotes a better understanding of the criteria affecting the quality of petroleum and petroleum products and is a valuable resource for chemists and engineers in the refining industry.

An increasing variety of petroleum feedstocks has produced an ever diversifying array of petroleum products. Consequently, new analytical techniques are constantly being developed in order to determine the appropriate applications for these new products. The Handbook of Petroleum Product Analysis provides detailed explanations of the necessary standard tests and procedures that are applicable to these products in order to determine the predictability of their behavior.

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A companion to James G. Speight ' s Handbook of Petroleum Analysis, this book describes the application of methods for determining the instability and incompatibility of petroleum products. More importantly, the Handbook provides details of the meaning of various test results and how they might be applied to predict product behavior. Written in a readable, conversational style that makes the book easy to use, Dr. Speight ' s text does not compete with the Annual Book of ASTM (American Society for Testing and Materials) Standards; instead, the Handbook complements it by explaining the reason d ' être of various testing methods, making a case for standardizing protocols across international boundaries. Chapters include: -Naphtha -Aviation Fuel -Kerosene -Distillate Fuel Oil -Asphalt Chemists and engineers in the refining industry, as well as students, will find Dr. Speight ' s Handbook to be an accessible, invaluable guide to understanding the methods for analyzing petroleum products.

Extensively revised and updated, Handbook of Water Analysis, Third Edition provides current analytical techniques for detecting various compounds in water samples. Maintaining the detailed and accessible style of the previous editions, this third edition demonstrates water sampling and preservation methods by enumerating different ways to measure chemical and radiological characteristics. It gives step-by-step descriptions of separation, residue determination, and clean-up techniques. See What ' s New in the Second Edition: Includes five new chapters covering ammonia, nitrates, nitrites, and petroleum hydrocarbons, as well as organoleptical and algal analysis methodology

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Compares older methods still frequently used with recently developed protocols, and examines future trends Features a new section regarding organoleptical analysis of water acknowledging that ultimately the consumers of drinking water have the final vote over its quality with respect to odor, flavor, and color The book covers the physical, chemical, and other relevant properties of various substances found in water. It then describes the sampling, cleanup, extraction, and derivatization procedures, and concludes with detection methods. Illustrated with procedure flow charts and schematics, the text includes numerous tables categorizing methods according to type of component, origin of the water sample, parameters and procedures used, and application range. With contributions from international experts, the book guides you through the entire scientific investigation starting with a sampling strategy designed to capture the real-world situation as closely as possible, and ending with an adequate chemometrical and statistical treatment of the acquired data. By organizing data into more than 300 tables, graphs, and charts, and supplementing the text with equations and illustrations, the editors distill a wealth of knowledge into a single accessible reference.

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