

Petroleum Refining In Nontechnical Language William L Leffler

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The formula for API gravity, which is measured in degrees (but has nothing to do with temperature or angles), is: f20 Petroleum Refining in Nontechnical Language o API = 141.5 - 131.5 specific gravity The origin of the 141.5 and 131.5 appears to be lost in the mists of history.

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Sets forth the many technical procedures involved in refining. Included are a new chapter on simple and complex refineries, and a revised chapter on gasoline blending, including current information on alcohol blending components.

For 45 years, William Leffler's Petroleum Refining in Nontechnical Language has been the go-to best seller for anyone needing to know the fundamentals of refining. Each chapter was carefully written in nontechnical language to give the reader a basic understanding of the refining industry.

Based on the best-selling book by Bill Leffler--industry veteran, author, and lecturer--the Petroleum Refining in Nontechnical Language Video Series walks you through the refining process one procedure at a time. In the 10-part series, Dr. Leffler covers the information found in his book Petroleum Refining in Nontechnical Language, 4th Edition, breaking down into easily digestible concepts each basic principle of refining.

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

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

Petroleum refiners must face billion-dollar investments in equipment in order to meet ever-changing environmental requirements. Because the design and construction of new processing units entail several years' lead time, refiners are reluctant to commit these dollars for equipment that may no longer meet certain conditions when the units come on stream. Written by experts with both academic and professional experience in refinery operation, design, and evaluation, Petroleum Refining Technology and Economics, Fifth Edition is an essential textbook for students and a vital resource for engineers. This latest edition of a bestselling text provides updated data and addresses changes in refinery feedstock, product distribution, and processing requirements resulting from federal and state legislation. Providing a detailed overview of today's integrated fuels refinery, the book discusses each major refining process as they relate to topics such as feedstock preparation, operating costs, catalysts, yields, finished product properties, and economics. It also contains end-of-chapter problems and an ongoing case study.

* Offers detailed description of process chemistry and thermodynamics and product by-product specifications of plants * Contributors are drawn from the largest petroleum producers in the world, including Chevron, Mobil, Shell, Exxon, UOP, and Texaco * Covers the very latest technologies in the field of petroleum refining processes * Completely updated 3rd Edition features 50% all new material

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

Catalysis is literally the heart of many petroleum refining processes and therefore of ongoing interest to those in and around the refining industry. In easy-to-grasp language and format, Petroleum Catalysis in Nontechnical Language examines fluid catalytic cracking (FCC), reforming, hydrotreating, hydrocracking, isomerization, and polymerization, as well as catalysts of the future such as enzymes.

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