

CHEMICAL INDUSTRY SERIES

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FIFTH EDITION

The Chemistry and Technology of Petroleum

James G Speight



The Chemistry And Technology Of Petroleum

Maximilian Toch



The Chemistry And Technology Of Petroleum:

The Chemistry and Technology of Petroleum, Fifth Edition James G. Speight, 2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for this fifth edition of *The Chemistry and Technology of Petroleum* which continues in the tradition of the bestselling fourth edition proving readers with a detailed overview of the chemistry and technology of petroleum as it evolves into the twenty first century The new edition has been updated with the latest developments in the refining industry including new processes as well as updates on evolving processes and various environmental regulations The book covers issues related to economics and future refineries examines the changing character of refinery feedstock and offers new discussions on environmental aspects of refining It contains more than 300 figures and tables including chemical structures and process flow sheets A useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry this book introduces readers to the science and technology of petroleum beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates

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The Chemistry and Technology of Coal, Second Edition, James G. Speight, 1994-07-07 Thoroughly rewritten and updated to reflect the latest advances in technology and highlighting the environmental aspects now being emphasized within the coal industry this Second Edition of a highly acclaimed reference text provides a comprehensive overview of coal science covering topics ranging from the origins of coal to mining and contemporary uses Maintaining and enhancing the clarity of presentation that made the first edition so popular The *Chemistry and Technology of Coal Second Edition* Considers the implications of the Clean Air Act Examines the effects of

combustion products on the atmosphere Details practical elements of coal evaluation procedures Clarifies misconceptions concerning the organic structure of coal Discusses the physical thermal electrical and mechanical properties of coal Analyzes the development and current status of combustion and gasification techniques *The Chemistry and Technology of Paints* Maximilian Toch,1925 Environmental Analysis and Technology for the Refining Industry James G. Speight,2005-09-02 A timely hands on guide to environmental issues and regulatory standards for the petroleum industry Environmental analysis and testing methods are an integral part of any current and future refining activities Today's petroleum refining industry must be prepared to meet a growing number of challenges both environmental and regulatory Environmental Analysis and Technology for the Refining Industry focuses on the analytical issues inherent in any environmental monitoring or cleanup program as they apply to today's petroleum industry not only during the refining process but also during recovery operations transport storage and utilization Designed to help today's industry professionals identify test methods for monitoring and cleanup of petroleum based pollutants the book provides examples of the application of environmental regulations to petroleum refining and petroleum products as well as current and proposed methods for the mitigation of environmental effects and waste management Part I introduces petroleum technology refining and products and reviews the nomenclature used by refiners environmental scientists and engineers Part II discusses environmental technology and analysis and provides information on environmental regulation and the impact of refining Coverage includes In depth descriptions of analyses related to gaseous emissions liquid effluents and solid waste A checklist of relevant environmental regulations Numerous real world examples of the application of environmental regulations to petroleum refining and petroleum products An analysis of current and proposed methods of environmental protection and waste management The Chemistry and Technology of Printing Inks Norman Underwood, Thomas V. Sullivan,1915 Technology of petroleum, by H. Neuburger and H. Noalhat, tr. by J.G. McIntosh Henry Neuburger,1901 **Asphalt Materials Science and Technology** James G. Speight,2015-10-01 Asphalt is a complex but popular civil engineering material Design engineers must understand these complexities in order to optimize its use Whether or not it is used to pave a busy highway waterproof a rooftop or smooth out an airport runway Asphalt Materials Science and Technology acquaints engineers with the issues and technologies surrounding the proper selection and uses of asphalts With this book in hand researchers and engineering will find a valuable guide to the production use and environmental aspect of asphalt Covers the Nomenclature and Terminology for Asphalt including Performance Graded PG Binders Asphalt Cement AC Asphalt Rubber A R Binder Asphalt Emulsion and Cutback Asphalt Includes Material Selection Considerations Testing and applications Biodegradation of Asphalt and environmental aspects of asphalt use Hydrogen Production Processes in Refining Technology James G. Speight,2024-06-26 This book details the various approaches to the production of hydrogen in petroleum refining The need for hydrogen is addressed and then the differences between the processes are detailed This practical and accessible guide is written for managers professionals and technicians

as well as graduate students transitioning into the refining industry Key Features Describes hydrogen purification methods and processes providing relevant process data and fully describing process operations Describes hydrogen purification methods and processes detailing the types of feedstock that can be used and exploring the options and parameters of each process Details commercial processes including gasification pretreatment and reactions and considers next generation processes and developments **National Information Center** United States. Congress. House. Committee on Education and Labor,1963 **National Information Center** United States. Congress. House. Committee on Education and Labor. Ad Hoc Subcommittee on a National Research Data Processing and Information Retrieval Center,1963 Considers legislation to create national scientific information data processing center in Chicago Ill Also discusses need for increased use of electronic data processing systems in Federal departments and agencies *Chemical & Metallurgical Engineering* ,1921

Electrochemical and Metallurgical Industry ,1921 **Technology of Petroleum** Henry Neuburger,Henri Noalhat,1901 **Catalogue** University of Pittsburgh ,1915 **The Science and Technology of the Environment** James G. Speight,2022-10-27 Understanding current environmental issues requires having a critical eye to all information related to the release and distribution of chemicals into the environment This new book offers scientists researchers and students an essential understanding of natural environments and the way in which they function by providing clear explanations of the fundamental aspects of environmental science and technology from a multidisciplinary perspective Written in a convenient and easy to read style this volume covers the important aspects of environmental science and technology focusing on the many issues that are related to the effects of chemical waste on various ecosystems as well as on pollutant mitigation and clean up The volume discusses several key environmental problems such as pollution ozone layer depletion acid rain and global warming affecting the Earth s atmosphere aquasphere and geosphere over the past four decades The author takes an interdisciplinary approach to explain the environmental conditions of earth affected by physical chemical biological and human interactions that transform and transport materials and energy The Science and Technology of the Environment is a ready at hand guide to the many issues that are related to the effects of chemicals on various ecosystems as well as to pollutant mitigation and clean up that will be valuable to students at all levels as well as a refresher for scientists researchers policymakers and others Oil Shale Technology Sunggyu Lee,1990-12-11 This book focuses on the fundamental and engineering aspects of shale oil extraction as well as the mathematical clarification of the complex transport mechanisms involved in oil shale pyrolysis The influence of the chemical and physical environment on the enhancement of oil yield is explained and ex situ and in situ technologies are reviewed and compared The discussion on ex situ shale oil extraction includes both thermal and chemical extraction techniques such as retorting solvent and supercritical extraction Parallels are drawn between the processes available for recovering and using other fossil fuel sources such as coal and tar sands and oil shale In addition to covering the characteristics of oil shale Oil Shale Technology summarizes the physical and chemical

properties of shale oil obtained from various deposits around the world The influence of the retorting process on the properties of the resulting oil shale is discussed as are standardized techniques for determining these properties Engineers geologists chemists chemical engineers and other researchers in the petroleum and chemical industries should consider this book an important reference resource

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The Chemistry And Technology Of Petroleum Introduction

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