

TECHNICAL DATA BOOK— PETROLEUM REFINING



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Api Technical Data Petroleum Refining

M. R. Riazi

Api Technical Data Petroleum Refining:

Fundamentals of Petroleum Refining Mohamed A. Fahim, Taher A. Al-Sahhaf, Amal Elkilani, 2009-11-19 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.

Refining Processes Handbook

Surinder Parkash, 2003-09-15 For the first time an essential reference for the multi billion dollar petrochemical industry that covers the complex topics involved in refining. **Technical Data Book, Petroleum Refining** American Petroleum Institute. Refining Department, **Petroleum Refining Design and Applications Handbook, Volume 1** A. Kayode Coker, 2018-09-05 There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists, engineers, technicians and operators to stay current. With so many changes over the last few decades in equipment and processes, petroleum refining is almost a living document constantly needing updating. With no new refineries being built, companies are spending their capital retooling and adding on to existing plants. Refineries are like small cities today as they grow bigger and bigger and more and more complex. A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes. This book is the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state of the art to the engineer, scientist or student. Useful as a textbook, this is also an excellent handy go to reference for the veteran engineer. A volume no chemical or process engineering library should be without. Written by one of the world's foremost authorities, this book sets the standard for the industry and is an integral part of the petroleum refining renaissance.

It is truly a must have for any practicing engineer or student in this area *Technical Data Book - Petroleum Refining , Technical Data Book - Petroleum Refining , Characterization and Properties of Petroleum Fractions* M. R. Riazi,2005 The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic physical and transport properties of petroleum fractions In this chapter various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures petroleum fractions crude oils natural gases and reservoir fluids are presented As it was discussed in Chapters 5 and 6 properties of gases may be estimated more accurately than properties of liquids Theoretical methods of Chapters 5 and 6 for estimation of thermophysical properties generally can be applied to both liquids and gases however more accurate properties can be predicted through empirical correlations particularly developed for liquids When these correlations are developed with some theoretical basis they are more accurate and have wider range of applications In this chapter some of these semitheoretical correlations are presented Methods presented in Chapters 5 and 6 can be used to estimate properties such as density enthalpy heat capacity heat of vaporization and vapor pressure Characterization methods of Chapters 2 4 are used to determine the input parameters needed for various predictive methods One important part of this chapter is prediction of vapor pressure that is needed for vapor liquid equilibrium calculations of Chapter 9 Publications, Programs & Services American Petroleum Institute,2005 *Petroleum Refining* James H. Gary,Glenn E. Handwerk,1994 This third edition presents the latest developments in the fundamental aspects of petroleum refining technology and economics discussing both the physical and chemical properties of petroleum products and oxygenate fuel additives It examines current environmental requirements and downstream implications of the Clean Air Act regarding processing fuels and product specifications End of chapter problems a case study and sample illustrations are included **Petroleum Refinery Process Economics** Robert E. Maples,2000 Maples presents an organized look at yield data and properties of products from refinery processes how to use this information in performing various process economics studies and discusses operating and capital costs for economic evaluation of both single processes and complete refineries Yield correlations are presented for all of the important commercially established petroleum refinery processes each accompanied by operating requirements and capital cost of a typical unit Here the user has all of the information required to perform a preliminary economic evaluation For each process yield correlation a simplified process flow diagram and brief process description is given Contents Correlation methodology Crude oils hydrocarbons and refinery products Refinery processing overview Energy resources and transportation fuels The environment and the refinery Crude oil and residual oil processing Solvent deasphalting Visbreaking and aquaconversion Delayed coking Fluid coking flexicoking Heavy distillate processing Fluid catalytic and heavy oil cracking Hydrocracking Hydrotreating Light distillate processing Naphtha desulfurization Catalytic reforming Light hydrocarbon processing Isomerization Alkylation Catalytic polymerization and dehydration Oxygenates Treating and other auxiliary

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