

Troubleshooting Practice In The Refinery

Getting the books **Troubleshooting Practice In The Refinery** now is not type of challenging means. You could not solitary going taking into account book growth or library or borrowing from your associates to contact them. This is an enormously easy means to specifically get guide by on-line. This online pronouncement Troubleshooting Practice In The Refinery can be one of the options to accompany you past having extra time.

It will not waste your time. consent me, the e-book will categorically spread you additional thing to read. Just invest tiny epoch to entry this on-line proclamation **Troubleshooting Practice In The Refinery** as skillfully as evaluation them wherever you are now.

Appendix II - United States. Congress. House. Select Committee on Small Business. Subcommittee No. 4 on Distribution Problems 1966

Investigates costs for refining and distributing gasoline to wholesale and retail outlets, to ascertain if petroleum industry is destructively competitive, as allegedly reflected in periodic "price wars" where gasoline is marketed without benefit of a fair profit. Examines complex competitive problems facing small, independent producers vis-a-vis large-scale producers; pt.2: Includes Mid-Continent Independent Refiners Association's "Petition for a Trade Regulation Rule for the Marketing of Gasoline," Mar. 1964 (p. 1033-1749).

Petroleum Development and Technology - Society of Petroleum Engineers of AIME. 1928

Petroleum Refineries - Dhananjoy Ghosh 2021-12-29

In petroleum refineries, although there are sets of standard operating procedures to operate the plants, unique problems often arise, which need to be tackled with engineering knowledge and experience without much loss of energy and time. This process is termed 'troubleshooting', and it saves production loss, leading to profitability and sustainability of the refinery operation. This book covers the ins and outs of troubleshooting in petroleum refineries, with an analysis of the problems faced, the fundamentals behind them and logical reasoning and illustrations to solve the problems, along with lessons learnt. This is the first such book on the market since the publication of one by Norman P. Lieberman about 30 years ago, and there has been a massive change in technology since then. This book will not only enlighten practicing engineers in refineries and postgraduate students but also facilitate the creation of a knowledge bank on troubleshooting case studies, helping share engineering knowledge and experiences.

Current Trends in Engineering Practice - C. V. Ramakrishnan 2006

'Current Trends in Engineering Practice' covers topics such as geotechnical investigations and structures, construction of earthmoving equipment, power system methodologies, inertial systems, launch vehicle design and corporate turnaround.

Troubleshooting Process Plant Control - Norman P. Lieberman 2017-03-21

Examines real life problems and solutions for operators and engineers running process controls Expands on the first book with the addition of five new chapters as well as new troubleshooting examples Written for the working operator and engineer, with straightforward instruction not hinged on complex math Includes real-life examples of control problems that commonly arise and how to fix them Emphasizes single and well-established process engineering principles that will help working engineers and operators switch manual control loops to automatic control

Proceedings - American Petroleum Institute 1965

Troubleshooting Vacuum Systems - Norman P. Lieberman 2012-12-03

Vacuum systems are in wide spread use in the petrochemical plants, petroleum refineries and power generation plants. The existing texts on this subject are theoretical in nature and only deal with how the equipment functions when in good mechanical conditions, from the viewpoint of the equipment vendor. Also, the existing texts fail to consider the interaction of the vacuum system with the process equipment it serves and the variability of the motive steam conditions, change in cooling water temperature condenser fouling and erosion of the ejectors. Here are some of the many questions answered in this groundbreaking volume:

Why does my first stage jet make a surging sound during hot weather? Why does the vacuum suddenly break? I've seen moisture condensing on the jet's body! What's causing that? Why do I have to steam-out the drain legs from our condensers? Superheated steam is making our vacuum worse. Is this normal? How can I locate and measure air leaks? Reducing the steam pressure to my jets improves vacuum. But why? I can't pull the pre-condenser bundle. The shell side is fouling. What should I do? We're not getting our normal horsepower from our steam turbine. Could this be a jet problem? Raising the seal drum level improves vacuum! Is there an explanation for this? Our turbine exhaust steam pressure to our surface condenser has doubled in the last two years. What should we do? Restricting cooling water flow from our elevated condensers improves vacuum! Is this possible? What's a converging-diverging ejector all about? What's the difference between a barometric condenser and a surface condenser? Which is better?

Distillation Troubleshooting - Henry Z. Kister 2011-11-30

THE FIRST BOOK OF ITS KIND ON DISTILLATION TECHNOLOGY The last half-century of research on distillation has tremendously improved our understanding and design of industrial distillation equipment and systems. High-speed computers have taken over the design, control, and operation of towers. Invention and innovation in tower internals have greatly enhanced tower capacity and efficiency. With all these advances, one would expect the failure rate in distillation towers to be on the decline. In fact, the opposite is the case: the tower failure rate is on the rise and accelerating. Distillation Troubleshooting collects invaluable hands-on experiences acquired in dealing with distillation and absorption malfunctions, making them readily accessible for those engaged in solving today's problems and avoiding tomorrow's. The first book of its kind on the distillation industry, the practical lessons it offers are a must for those seeking the elusive path to trouble-free distillation. Distillation Troubleshooting covers over 1,200 case histories of problems, diagnoses, solutions, and key lessons. Coverage includes: * Successful and unsuccessful struggles with plugging, fouling, and coking * Histories and prevention of tray, packing, and internals damage * Lessons taught by incidents and accidents during shutdowns, commissioning, and abnormal operation * Troubleshooting distillation simulations to match the real world * Making packing liquid distributors work * Plant bottlenecks from intermediate draws, chimney trays, and feed points * Histories of and key lessons from explosions and fires in distillation towers * Prevention of flaws that impair reboiler and condenser performance * Destabilization of tower control systems and how to correct it * Discoveries from shutdown inspections * Suppression of foam and accumulation incidents A unique resource for improving the foremost industrial separation process, Distillation Troubleshooting transforms decades of hands-on experiences into a handy reference for professionals and students involved in the operation, design, study, improvement, and management of large-scale distillation.

The Federal Energy Administration - United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Administrative Practice and Procedure 1975

Petroleum Refining Design and Applications Handbook, Volume 4 - A. Kayode Coker 2023-01-12

PETROLEUM REFINING This fourth volume in the Petroleum Refining set, this book continues 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. This book provides the design of heat exchanger equipment, crude oil fouling in pre-heat train exchangers, crude oil fouling models, fouling

mitigation and monitoring, prevention and control of liquid and gas side fouling, using the Excel spreadsheet and UniSim design software for the design of shell and tube heat exchangers, double pipe heat exchangers, air-cooled exchangers, heat loss tracing for process piping, pinch analysis for hot and cold utility targets and process safety incidents involving these equipment items and pertinent industrial case studies. Use of UniSim Design (UniSim STE) software is illustrated in further elucidation of the design of shell and tube heat exchangers, condensers, and UniSim ExchangerNet R470 for the design of heat exchanger networks using pinch analysis. This is important for determining minimum cold and hot utility requirements, composite curves of hot and cold streams, the grand composite curve, the heat exchanger network, and the relationship between operating cost index target and the capital cost index target against ΔT_{min} . 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. This groundbreaking new volume: Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day-to-day petroleum refining operations topics with new materials on significant industry changes Extensive Excel spreadsheets for the design of process vessels for mechanical separation of two-phase and three-phase fluids, double-pipe heat exchanger, air-cooled exchanger, pinch analysis for hot and cold utility targets. Provides UniSim ®-based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

More Best Practices for Rotating Equipment - Michael S. Forsthoffer 2017-02-06

More Best Practices for Rotating Equipment follows Forsthoffer's multi-volume Rotating Equipment Handbooks, addressing the latest best practices in industrial rotating machinery and also including a comprehensive treatment of the basics for reference. The author's famous troubleshooting approach teaches the reader proven methodologies for installation, operation, and maintenance of equipment, and covers all phases of work with rotating equipment. Reliability optimization is also addressed for the first time. The book is ideal for engineers working in the design, installation, operation, and maintenance of power machinery. It is also an essential source of information for postgraduate students and researchers of mechanical and industrial engineering. Presents 200 new best practices for rotating equipment Offers an easy-to-use reference, with each chapter addressing a different type of equipment Covers all phases of work with rotating equipment, from pre-commissioning through maintenance

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 re-tooling 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.

The Mirage of Oil Protection - Robert L. Bradley 1989

The debate over oil tariffs revolves around the question, should consumers pay higher prices now and in the future to prevent an oil supply calamity? A number of economists and industry experts, in addition to many individuals within the industry, have answered the question affirmatively. They have called for a tariff on crude oil and oil products to protect the domestic industry, and, in turn, consumers and the economic and military interests of the nation as a whole, from low-cost and reserve-rich foreign suppliers who do not have our best interests in mind. This book attempts to show that even the most sophisticated arguments for oil protectionism are not convincing. It surveys previous U.S. episodes of energy protectionism to demonstrate the perils of political solutions to competitive problems. The book concludes that oil protectionism will lead not to sustained industry relief but to political and economic struggles within an overbuilt domestic industry. Sustainable industry relief requires market-oriented reforms in the areas of taxation, regulation, and privatization. In an era of lower, volatile prices, only this free-market approach can enhance the health of the domestic industry while respecting the rights of consumers. Co-published with the Cato Institute.

Practice and Problems in the Use of Natural Gas, Refinery Oil Gas and Liquefied Petroleum Gas in Gas Production - E. G. Boyer 1955

Models for Optimum Decision Making - Katta G. Murty 2020-03-13

This book considers the problem of determining how many barrels of crude oil an oil-producing and exporting country should produce annually for export—along with several other important problems that decision-makers in the crude oil industry face—and discusses procedures for finding optimum solutions for them. It considers the important Objective Functions they need in making these critical decisions, and discusses procedures to find the best solutions. Outputs from the treatment units, in an oil refinery are only semi-finished products; these are blended into finished products like gasoline, diesel oil, etc., meeting various specifications that the marketplace demands. The book discusses models for solving these problems optimally with examples.

Anticompetitive Practices in the Retail Gasoline Market - United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust, Monopolies, and Business Rights 1992

Petroleum Marketing Practices and Problems - William Henry Day 1966

Oil Bulletin - 1926

The Chemistry and Technology of Petroleum, Fourth Edition - James G. Speight 2006-10-31

Refineries must not only adapt to evolving environmental regulations for cleaner product specifications and processing, but also find ways to meet the increasing demand for petroleum products, particularly for liquid fuels and petrochemical feedstocks. The Chemistry and Technology of Petroleum, Fourth Edition offers a 21st century perspective on the development of petroleum refining technologies. Like its bestselling predecessors, this volume traces the science of petroleum from its subterranean formation to the physicochemical properties and the production of numerous products and petrochemical intermediates. Presenting nearly 50 percent new material, this edition emphasizes novel refining approaches that optimize efficiency and throughput. It includes new chapters on heavy oil and tar sand bitumen recovery, deasphalting and dewaxing processes, and environmental aspects of refining, including refinery wastes, regulations, and analysis. The text also features revised and expanded coverage of instability and incompatibility, refinery distillation, thermal cracking, hydrotreating and desulfurization, hydrocracking, and hydrogen production. A unique, well-documented, and forward-thinking work, this book continues to present the most complete coverage of petroleum science, technology, and refining available. The Chemistry and Technology of Petroleum, Fourth Edition provides an ideal platform for scientists, engineers, and other professionals to achieve cleaner and more efficient petroleum processing methods.

Nonlinear Model-based Process Control - Rashid M. Ansari 2000-04-12

The work in this text entails the development of non-linear model-based multivariable control algorithms and strategies and their use in an integrated approach to control strategy, which incorporates a process model, an inferential model and a multi-variable control algorithm in one framework.

Forsthoffer's Best Practice Handbook for Rotating Machinery - William E. Forsthoffer 2011-06-03

Forsthoffer summarizes, expands, and updates the content from previous books in a convenient all-in-one volume. This titles offers comprehensive technical coverage and insider information on best practices derived from lessons learned in the engineering, operation, and maintenance of a wide array of rotating equipment.

Maintenance, Reliability and Troubleshooting in Rotating Machinery - Robert X. Perez 2022-05-13
Maintenance, Reliability and Troubleshooting in ROTATING MACHINERY This broad collection of current rotating machinery topics, written by industry experts, is a must-have for rotating equipment engineers, maintenance personnel, students, and anyone else wanting to stay abreast with current rotating machinery concepts and technology. Rotating machinery represents a broad category of equipment, which includes pumps, compressors, fans, gas turbines, electric motors, internal combustion engines, and other equipment, that are critical to the efficient operation of process facilities around the world. These machines must be designed to move gases and liquids safely, reliably, and in an environmentally friendly manner. To fully understand rotating machinery, owners must be familiar with their associated technologies, such as machine design, lubrication, fluid dynamics, thermodynamics, rotordynamics, vibration analysis, condition monitoring, maintenance practices, reliability theory, and other topics. The goal of the "Advances in Rotating Machinery" book series is to provide industry practitioners a time-savings means of learning about the most up-to-date rotating machinery ideas and best practices. This three-book series will cover industry-relevant topics, such as design assessments, modeling, reliability improvements, maintenance methods and best practices, reliability audits, data collection, data analysis, condition monitoring, and more. Volume one began the series by focusing on design and analysis. Volume two continues the series by covering important machinery reliability concepts and offering practical reliability improvement ideas. Best-in-class production facilities require exceptional machinery reliability performance. In this volume, exceptional machinery reliability is defined as the ability of critical rotating machines to consistently perform as designed, without degradation or failure, until their next scheduled overhaul. Readers will find this volume chock-full of practical ideas they can use to improve the reliability and efficiency of their machinery. Maintenance, Reliability and Troubleshooting in Rotating Machinery covers, among many other topics: General machinery reliability advice Understanding failure data Design audits and improvement ideas Maintenance best practices Analyzing failures

Safety Issues Related to Petroleum Refineries - Joel M. Haight 2013

In petroleum refineries, the concern for safety could be said to focus on two main areas: process safety and labor or personnel safety. These two areas are very different from each other, but both are important. They require two very different approaches to what one might call the safety problem. Process safety involves the development and implementation of interventions concentrated on preventing or minimizing the effects of loss of containment of flammable, toxic, or reactive chemicals. Labor or personnel safety interventions focus on the prevention or mitigation of hazards that can result in individual injuries or exposures; a much less catastrophic problem, but a no less important one. Through both approaches to the safety problem, we attempt to prevent or minimize the impact of accidents. There are many definitions for an accident, but for the purposes of this chapter, they will be considered unintentional events that result in undesirable consequences. Accidents occur in nearly every facet of our lives. Because in petroleum refineries, there is extensive heavy manual work (especially during maintenance turnarounds); there is large, heavy equipment; there are toxic, flammable and reactive chemicals; and there are high temperatures and pressures in many processes, it is no surprise that accidents occur here. Over the last 2030 years, in petroleum refineries and similar processes, there have been several significant watershed incidents that have fueled the development of many of the regulations and prevention activities that apply today and that serve to minimize the impact of the hazards typically associated with petroleum refining. The driving forces behind much of what makes up a modern safety and health program in the petroleum refinery in the United States are the regulatory agencies: the Occupational Safety and Health Administration (OSHA) and the U.S. Environmental Protection Agency (EPA). Although this chapter will draw heavily from these regulations, it will also include discussion on the ways and means that companies comply with these regulations (as well as other consensus standards and general good practice). The content of typical safety and health programs in petroleum refineries will

also be covered, but the primary focus of this chapter will be on process safety, safe work practices or permit-to-work systems, and behavioral safety.

Petroleum Refining - James H. Gary 2001-02-06

Continuing the tradition and high standards set by earlier editions, Petroleum Refining, Fourth Edition summarizes recent developments in oil refining processes, addressing topics ranging from basic applications to the implementation of viable operations that meet environmental and economic stipulations. Maintaining the clear and systematic style of presentation that sent the previous editions into more than 25 printings, Petroleum Refining, Fourth Edition Incorporates valuable statistics on utility data, investment, and operating costs for estimating the economics of refining configurations! Describes petroleum's physical and chemical properties Satisfies "short-term" demands from recent legal standpoints for creating reformulated fuels Reviews petroleum-refining technology and all the major refining processes Considers environmental concerns, the place of reformulated fuels in product distribution, and uses for heavier crude oils and crude oils with higher sulfur and metal contents Enables complete material balances to be made from physical properties and typical yield data Advancing the successful features that led to the adoption of previous editions at numerous colleges and universities, including Harvard University, the Colorado School of Mines, the University of Houston, and the University of Pittsburgh, the Fourth Edition also offers End-of-chapter problems, equations, illustrative tables, notes, and bibliographies An ongoing case-study problem Convenient and helpful appendices on an economic evaluation problem, terminology, physical properties, analyses of selected crude oils, and photographs Written by experts combining academic and professional experience, Petroleum Refining, Fourth Edition is an essential text for all upper-level undergraduate, graduate, and continuing-education students taking courses in petroleum-refinery processing. It also serves as a helpful resource for chemical, petroleum, refining, and process design engineers; refinery management personnel; and energy consultants.

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

Solutions to Competitive Problems in the Oil Industry - United States. Congress. House. Committee on the Judiciary 2001

Moving Towards Collaborative Problem-solving: Business and Industry Perspectives and Practices on Environmental Justice - United States. Environmental Protection Agency. Office of Environmental Justice 2003

Biometric and Intelligent Decision Making Support - Arturas Kaklauskas 2014-12-26

This book presents different methods for analyzing the body language (movement, position, use of personal space, silences, pauses and tone, the eyes, pupil dilation or constriction, smiles, body temperature and the like) for better understanding people's needs and actions, including biometric data gathering and reading. Different studies described in this book indicate that sufficiently much data, information and knowledge can be gained by utilizing biometric technologies. This is the first, wide-ranging book that is devoted completely to the area of intelligent decision support systems, biometrics technologies and their integrations. This book is designated for scholars, practitioners and doctoral and master's degree students in various areas and those who are interested in the latest biometric and intelligent decision making support problems and means for their resolutions, biometric and intelligent decision making support systems and the theory and practice of their integration and the opportunities for the practical use of biometric and intelligent decision making

support.

Safety in Petroleum Industries - Dhananjoy Ghosh 2021-04-26

Safety in Petroleum Industries covers pertinent safety aspects and precautions to be taken for design, operation, maintenance, inspection and project constructions for petroleum industries, with an emphasis on petroleum refineries. Relevant practical knowledge and experience contributing to safe and sustained operation of the industry has been compiled with all necessary references. Identified areas where theoretical inputs are required have also been incorporated. Learning objectives for the petroleum industries have been identified and discussed in an organized manner based on author's more than thirty-five years of experience in petroleum and chemical industries. Aimed at practicing engineers in upstream and downstream petroleum industries, this book: Covers safety tips for operation of petroleum industries Documents design codes, tools and practices including safe operating practices of different equipment and safety procedures in a single source Includes detailed safety procedures like HAZOP, Safety Audit, management safety review, and process safety management Contains dedicated chapters on Fire Fighting, and Industrial Hygiene and Ergonomics Discusses first-hand experienced examples and burning issues in the petroleum industry
Chemical Engineering Progress - 2006

Water Utilization and Conservation by Petroleum Refineries in California - Curtis D. Edgerton 1965

Distillation Operation - Henry Z. Kister 1990

Discussing distillation, this book gives readers guidelines for operation, troubleshooting and control. It offers a compendium of Do's and Don'ts, good practices, and guidelines for trouble-free design; operation and troubleshooting for inlets and outlets; avoiding tray damage; installation; commissioning and startup techniques; and more.

Troubleshooting Practice in the Refinery - Andrew Sloley 2001

Petroleum Refining in Nontechnical Language - William L. Leffler 2000

Using analogies, graphs, formulas and illustrations, the author overviews key topics in the refining industry for professionals in finance and marketing. The third edition reflects changes in petroleum processing and the impact of environmental regulation. Annotation c. Book News, Inc., Portland, OR

World Refinery Industry - Lakdasa Wijetilleke 1984

The oil refining industry is a critical link in the energy chain in many developing and industrialized countries, transforming crude oil into transport fuels, residual fuel oil, and other products such as kerosene, used in developing countries for lighting and cooking. The present report reviews the physical structure and process configuration of the world refining industry in the mid-1980s. It analyzes the factors influencing demand for petroleum derivatives and forecasts future demand patterns on a regional basis through 1995. Based on this analysis and on the potential for interregional trade in petroleum products, estimates are made of future regional investment requirements in additional conversion capacity, improved energy efficiency,

rehabilitation and related areas. The implications of changes in the institutional framework of the industry are also discussed, specifically the expansion in the role of publicly-owned national oil companies relative to the private multinationals. Policy issues examined include the pricing of petroleum products, the frequent need for corporate, financial and managerial restructuring in the public sector and the potential future role of private capital.

The Role of Human Resource Practices in Petro-chemical Refinery Performance - Patrick M. Wright 1997

Hydrocarbon Processing and Refining - Ashis Nag 2022-12-12

This book covers petroleum refining and gas purification processes, including refinery configurations comprising of relevant units with special emphasis on processing of heavy crudes with high acid number. It includes a short review of distillation principles, distillation column auxiliaries, critical column pressure control strategies, critical issues of crude and vacuum distillation units particularly for heavy crude processing. Different corrosion mechanisms and their prevention with regards to heavy high TAN crude processing are also included. Fundamentals are explained with support of steady-state simulation and presented with simulation flowsheets and outputs, supported by examples of calculations and troubleshooting case studies. Features: • Deals with principles and practices in the hydrocarbon industry and petroleum refinery with emphasis on heavy crude processing • Focuses on operation and practices of the major process units with simulation examples and aimed at the professional engineer • Covers acid gas treatment in view of increased emphasis on carbon capture and storage, and introduction of residue gasification processes • Elucidates methodologies for safety relief load computation for distillation columns • Explains real-life problems in reboilers, column internals, column pressure controls and corrosion in crude, and vacuum distillation and secondary units with several case studies This book is aimed at professionals in petroleum engineering and graduate students in chemical engineering.

Environmental Management Systems Handbook for Refineries - Nicholas Cheremisinoff 2006-03
CD-ROM contains: Pollution prevention auditor's toolkit.

Assessing Community Advisory Panels: A Case Study from Louisiana's Industrial Corridor -

Petroleum Refineries - Dhananjoy Ghosh 2021-12-29

In petroleum refineries, although there are sets of standard operating procedures to operate the plants, unique problems often arise, which need to be tackled with engineering knowledge and experience without much loss of energy and time. This process is termed 'troubleshooting', and it saves production loss, leading to profitability and sustainability of the refinery operation. This book covers the ins and outs of troubleshooting in petroleum refineries, with an analysis of the problems faced, the fundamentals behind them and logical reasoning and illustrations to solve the problems, along with lessons learnt. This is the first such book on the market since the publication of one by Norman P. Lieberman about 30 years ago, and there has been a massive change in technology since then. This book will not only enlighten practicing engineers in refineries and postgraduate students but also facilitate the creation of a knowledge bank on troubleshooting case studies, helping share engineering knowledge and experiences.