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**Handbook of Natural Gas
Transmission and
Processing** - Saeid Mokhatab
2017-09-01
Handbook of Natural Gas
Transmission and Processing

gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. The

authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects. Provides practicing engineers critical information on all aspects of gas gathering, processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency, quality and profit

Well Completion Design - Jonathan Bellarby 2009-04-13 Completions are the conduit between hydrocarbon reservoirs and surface facilities. They are a fundamental part of any hydrocarbon field development project. They have to be designed for safely maximising the hydrocarbon recovery from the well and may have to last

for many years under ever changing conditions. Issues include: connection with the reservoir rock, avoiding sand production, selecting the correct interval, pumps and other forms of artificial lift, safety and integrity, equipment selection and installation and future well interventions. *

Course book based on course well completion design by TRACS International * Unique in its field: Coverage of offshore, subsea, and landbased completions in all of the major hydrocarbon basins of the world. * Full colour

Emulsions and Oil Treating Equipment - Maurice Stewart 2008-12-30

The problem of removing water which is emulsified with produced oil has grown more widespread and often times more difficult as producers attempt to access more difficult reserves. This practical guide is designed to help engineers and operators develop a "feel" for selection, sizing, and troubleshooting emulsion equipment. These skills are of vital importance to ensure low

operating costs and to meet crude export quality specifications. The book is written for engineers and operators, who need advanced knowledge of the numerous techniques and the equipment used to destabilize and resolve petroleum emulsions problems. In **Emulsions and Oil Treating Equipment: Selection, Sizing and Troubleshooting** the author provides engineers and operators with a guide to understanding emulsion theory, methods and equipment, and practical design of a treating system. Comprehensive in its scope, the author explains methods such as: demulsifiers, temperature, electrostatics and non-traditional methods of modulated or pulsed voltage control, as well as equipment such as: electrostatic treater (dehydrator), separator, gunbarr heater-treater and free water knockout. Written in a "how to" format, it brings together hundreds of methods, handy formulas, diagrams and tables in one convenient book. Detailed coverage emulsion

equipment and removal methods Tips for selecting, sizing, and operating emulsion equipment Overview of emulsion theory and factors affecting treatment methods Packed with equipment diagrams, worked out calculations covers equipment and removal methods

Oilfield Processing of Petroleum: Natural gas -

Francis S. Manning 1991 This book describes oilfield processing and handling of natural gas in a direct, easy-to-follow format. Process descriptions, design methods, operating procedures and troubleshooting are covered in detail. This hands-on reference will be useful to field practitioners and is an ideal training text. Petroleum engineers will gain a better understanding of surface operations between the wellhead and the point of custody transfer or transport from the production facilities.

Applied Process Design for Chemical and Petrochemical Plants - Ernest E. Ludwig 1965

Practical Aspects of CO₂ Flooding- Perry M. Jarrell
2002

Practical Aspects of CO₂ Flooding serves as a logical guide to the practicing engineer focused on the "how to" and "why" of miscible and immiscible CO₂ flooding. The book outlines the entire project development sequence from conception and justification through field design and operation. Discussion centers on current and practical CO₂ flooding technologies and industry experiences, and it targets those involved in planning, designing, and implementing CO₂ floods. The book has five appendices including a compendium of practical, field-specific publications.

ASME Technical Papers -
1995

Compressor Handbook -
Anthony Giampaolo 2010-07-02
This book provides a practical introduction to dynamic and positive displacement compressors, including compressor performance,

operation, and problem awareness. In reading this book readers will learn what is needed to select, operate, and troubleshoot compressors. Complete with real-life case histories, the book demonstrates investigative techniques for identifying and isolating various contributing causes, including design deficiencies, manufacturing defects, adverse environmental conditions, operating errors, and intentional or unintentional changes of the machinery process that usually precede failure.

[Pipeline Rules of Thumb Handbook](#) - E.W. McAllister
2015-06-02

This classic reference has built a reputation as the "go to" book to solve even the most vexing pipeline problems. Now in its seventh edition, Pipeline Rules of Thumb Handbook continues to set the standard by which all others are judged. The 7th edition features over 30% new and updated sections, reflecting the exponential changes in the codes, construction and equipment

since the sixth edition. The seventh edition includes: recommended drill sizes for self-tapping screws, new ASTM standard reinforcing bars, calculations for calculating grounding resistance, national Electrical Code tables, Coriliss meters, pump seals, progressive cavity pumps and accumulators for lubricating systems. * Shortcuts for pipeline construction, design, and engineering * Calculations methods and handy formulas * Turnkey solutions to the most vexing pipeline problems

Practical Onshore Gas Field Engineering - David Simpson
2017-07-10

Practical Onshore Gas Field Engineering delivers the necessary framework to help engineers understand the needs of the reservoir, including sections on early transmission and during the life of the well. Written from a reservoir perspective, this reference includes methods and equipment from gas reservoirs, covering the gathering stage at the gas facility for transportation and

processing. Loaded with real-world case studies and examples, the book offers a variety of different types of gas fields that demonstrate how surface systems can work through each scenario. Users will gain an increased understanding of today's gas system aspects, along with tactics on how to optimize bottom line revenue. As reservoir and production engineers face many challenges in getting gas from the reservoir to the final sales point, especially as a result of the shale boom, a new demand for more facility engineers now exists in the market. This book addresses new challenges in the market and brings new tactics to the forefront.

Presents the full lifecycle of the gas surface facility, from reservoir to gathering and transmission Helps users gain experience through case studies that explain successes and failures on a variety of gas fields, including unconventional and shale Teaches how the surface gas facility system and equipment

work individually, and as an integrated system

Sulzer Centrifugal Pump Handbook - Sulzer Pumps 1997-12-19

The Sulzer Centrifugal Pump Handbook takes full account of the progress that has recently been made in pump construction. All the experience gained by CCM-Sulzer and others in pump construction and pump behaviour in systems has been assembled and related to various fields of application. Production areas such as cavitation, erosion, selection of materials, rotor vibration behaviour, forces acting on pumps, operating performance in various types of circuitry, drives and acceptance testing are dealt with in detail. The Handbook is an excellent reference work by one of the world's foremost pump manufacturers. It presents the current state-of-the-art in pump construction and is directed to planners and operating companies alike.

Gas Purification Arthur L. Kohl 1985

Turboexpanders and Process Applications - Heinz P. Bloch 2001-06-15

Full text engineering e-book.

Rules of Thumb for Chemical Engineers - Carl Branam 1998

The first edition proved itself to be a standard reference for chemical engineers. This updated, thoroughly revised new edition helps solve your field engineering problems with its hundreds of common sense techniques, shortcuts, and calculations. In addition, this convenient volume reflects the latest developments in geographic information systems, process safety management, and pipeline toughness.

Rules of Thumb for Mechanical Engineers - J.

Edward Pope 1997

Fluids -- Heat transfer -- Thermodynamics -- Mechanical seals -- Pumps and compressors -- Drivers -- Gears -- Bearings -- Piping and pressure vessels -- Tribology -- Vibration -- Materials -- Stress and strain -- Fatigue -- Instrumentation -- Engineering economics.

National Trade and Professional Associations of the United States - 2006

Compression Machinery for Oil and Gas - Klaus Brun

2018-11-30

Compression Machinery for Oil and Gas is the go-to source for all oil and gas compressors across the industry spectrum. Covering multiple topics from start to finish, this reference gives a complete guide to technology developments and their applications and implementation, including research trends. Including information on relevant standards and developments in subsea and downhole compression, this book aids engineers with a handy, single resource that will help them stay up-to-date on the compressors needed for today's oil and gas applications. Provides an overview of the latest technology, along with a detailed discussion of engineering Delivers on the efficiency, range and limit estimations for machines Pulls together multiple contributors

to balance content from both academics and corporate research

Pipeline Rules of Thumb Handbook - E.W. McAllister
2015-08-03

Now in its sixth edition, Pipeline Rules of Thumb Handbook has been and continues to be the standard resource for any professional in the pipeline industry. A practical and convenient reference, it provides quick solutions to the everyday pipeline problems that the pipeline engineer, contractor, or designer faces. Pipeline Rules of Thumb Handbook assembles hundreds of shortcuts for pipeline construction, design, and engineering. Workable "how-to" methods, handy formulas, correlations, and curves all come together in this one convenient volume. Save valuable time and effort using the thousands of illustrations, photographs, tables, calculations, and formulas available in an easy to use format Updated and revised with new material on project

scoping, plastic pipe data, HDPE pipe data, fiberglass pipe, NEC tables, trenching, and much more A book you will use day to day guiding every step of pipeline design and maintenance

Ludwig's Applied Process Design for Chemical and Petrochemical Plants - A.

Kayode Coker, PhD 2010-07-19

The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E. Ludwig's classic chemical engineering process design manual. Volume Two focuses on distillation and packed towers, and presents the methods and fundamentals of plant design along with supplemental mechanical and related data, nomographs, data charts and heuristics. The Fourth Edition is significantly expanded and updated, with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives. A true application-driven book, providing clarity and easy

access to essential process plant data and design information Covers a complete range of basic day-to-day petrochemical operation topics Extensively revised with new material on distillation process performance; complex-mixture fractionating, gas processing, dehydration, hydrocarbon absorption and stripping; enhanced distillation types

Rules of Thumb for Chemical Engineers -

Stephen M Hall 2011-03-31

This new edition of the most complete handbook for chemical and process engineers incorporates the latest information for engineers and practitioners who depend on it as a working tool. New material explores the recent trends and updates of gas treating and fractionator computer solutions analysis. Substantial additions to this edition include a new section on gasification that reflects the many new trends and techniques in the field and a treatment on compressible fluid flow. This convenient volume provides engineers

with hundreds of common sense techniques, shortcuts, and calculations to quickly and accurately solve day-to-day design, operations, and equipment problems. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. * The standard handbook for chemical and process engineers * All new material on pinch point analysis on networks of heat exchangers and updates on gas treating in process design and heat transfer * Hundreds of common sense techniques and calculations

Clathrate Hydrates of Natural Gases - E. Dendy Sloan Jr.
2007-09-07

Hydrate research has expanded substantially over the past decade, resulting in more than 4,000 hydrate-related publications. Collating this vast amount of information into one source, Clathrate Hydrates of Natural Gases, Third Edition presents a

thoroughly updated, authoritative, and comprehensive description of all major aspects of natural gas clathrate hydrates. *Handbook of Liquefied Natural Gas* - Saeid Mokhatab
2013-10-15

Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction

to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a "fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

Proceedings, Annual

Convention- Gas Processors Association 1997

Surface Production

Operations, Volume 1 -

Maurice Stewart 2011-03-31

The latest edition of this best-selling title is updated and expanded for easier use by engineers. New to this edition is a section on the fundamentals of surface production operations taking up topics from the oilfield as originally planned by the authors in the first edition. This information is necessary and endemic to production and process engineers. Now, the book offers a truly complete picture of surface production operations, from the production stage to the process stage with applications to process and production engineers. New in-depth coverage of hydrocarbon characteristics, the different kinds of reservoirs, and impurities in crude Practical suggestions help readers understand the art and science of handling produced liquids Numerous, easy-to-read

figures, charts, tables, and photos clearly explain how to design, specify, and operate oilfield surface production facilities

Petroleum and Gas Field Processing - H.K. Abdel-Aal
2003-07-03

The immediate product extracted from oil and gas wells consists of mixtures of oil, gas, and water that is difficult to transport, requiring a certain amount of field processing. This reference analyzes principles and procedures related to the processing of reservoir fluids for the separation, handling, treatment, and production of quality petroleum oil and gas products. It details strategies in equipment selection and system design, field development and operation, and process simulation and control to increase plant productivity and safety and avoid losses during purification, treatment, storage, and export. Providing guidelines for developing efficient and economical treatment systems, the book

features solved design examples that demonstrate the application of developed design equations as well as review problems and exercises of key engineering concepts in petroleum field development and operation.

Natural Gas Hydrates - John Carroll
2020-05-12

Natural Gas Hydrates, Fourth Edition, provides a critical reference for engineers who are new to the field. Covering the fundamental properties, thermodynamics and behavior of hydrates in multiphase systems, this reference explains the basics before advancing to more practical applications, the latest developments and models. Updated sections include a new hydrate toolbox, updated correlations and computer methods. Rounding out with new case study examples, this new edition gives engineers an important tool to continue to control and mitigate hydrates in a safe and effective manner. Presents an updated reference with structured comparisons on hydrate calculation methods

that are supported by practical case studies and a current list of inhibitor patents Provides a comprehensive understanding of new hydrate management strategies, particularly for multiphase pipeline operations Covers future challenges, such as carbon sequestration with simultaneous production of methane from hydrates

Cleaning of Process Equipment and Piping - Joerg Gutzeit 1997

Process equipment and piping in chemical and petrochemical plants and petroleum refineries have to be cleaned periodically as part of normal maintenance operations to remove fouling that interferes with process flow, heat transfer, or other operations. Cleaning is also necessary to allow safe personnel entry prior to equipment inspection, repairs, or modifications. Most cleaning operations are expensive and time-consuming and need to be planned, budgeted, and carried out in a timely fashion to ensure minimum interference with normal process or maintenance operations.

Certain process equipment and

piping may also have to be cleaned prior to being put into service for the first time. Such pre-commission cleaning removes rust, dirt, and other debris that formed or entered during fabrication, shipment, or erection, and that are likely to cause damage after start-up. process equipment and piping in chemical plants, petrochemical plants and petroleum refineries. Practical information and guidance is provided for plant engineers and operators who, from time to time, are charged with planning various cleaning operations that will be carried out either by in-house maintenance personnel or outside cleaning contractors. Sufficient information is given to enable the nonspecialist to either propose cleaning procedures or evaluate cleaning procedures proposed by others. The manual enumerates a multitude of factors that need to be considered before a cleaning operation is started, including timing, alternative methods, costs, manpower requirements,

safety concerns, and waste disposal issues.

Analysis, Synthesis and Design of Chemical Processes -

Richard Turton 2008-12-24

The Leading Integrated Chemical Process Design Guide: Now with New Problems, New Projects, and More More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Third Edition, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this book moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fully updated Third Edition presents entirely new problems at the end of every chapter. It also adds extensive coverage of batch process

design, including realistic examples of equipment sizing for batch sequencing; batch scheduling for multi-product plants; improving production via intermediate storage and parallel equipment; and new optimization techniques specifically for batch processes. Coverage includes Conceptualizing and analyzing chemical processes: flow diagrams, tracing, process conditions, and more Chemical process economics: analyzing capital and manufacturing costs, and predicting or assessing profitability Synthesizing and optimizing chemical processing: experience-based principles, BFD/PFD, simulations, and more Analyzing process performance via I/O models, performance curves, and other tools Process troubleshooting and “debottlenecking” Chemical engineering design and society: ethics, professionalism, health, safety, and new “green engineering” techniques Participating successfully in chemical engineering design teams

Analysis, Synthesis, and Design of Chemical Processes, Third Edition, draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University. It includes suggested curricula for both single-semester and year-long design courses; case studies and design projects with practical applications; and appendixes with current equipment cost data and preliminary design information for eleven chemical processes—including seven brand new to this edition.

Paper - 1995

Engineering Data Book Fps - 2004

Fluid Mechanics, Heat Transfer, and Mass Transfer
K. S. Raju 2011-04-20

This broad-based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas, namely, Fluid Mechanics, Heat Transfer or Mass Transfer, rather than all the three. This book presents this material in a

single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory rather than practical issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting stereo-typed question-answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different

equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation, with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NOx control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and installation issues, drums and separators are discussed in good detail. Absorption, distillation, extraction and leaching with applications and design methods, including emerging practices involving

Divided Wall and Petluk column arrangements, multicomponent separations, supercritical solvent extraction find place in the book.

Handbook of Natural Gas Transmission and Processing - Saeid Mokhatab
2012-07-02

Acquire the tools and techniques that will help meet the world's growing natural gas demand. Handbook of Natural Gas Transmission and Processing, 2nd Edition gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. Emphasizing the practical aspects of natural gas production over the theoretical, the authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. This 2nd edition examines ways to select the best processing route for optimal design of gas-processing plants and includes three new chapters on

dynamics of process controls, process modeling and simulation and optimal design of gas processing plants. Both Chapter 7 (Acid Gas Treating) and Chapter 9 (Natural Gas Dehydration) are heavily revised. The objective of this work is to provide plant designers and owners/operators methods to decrease construction costs and total cost of ownership while addressing reliability and availability.

Fundamentals of Natural Gas Processing - Arthur J. Kidnay
2006-06-21

Fundamentals of Natural Gas Processing explores the natural gas industry from the wellhead to the marketplace. It compiles information from the open literature, meeting proceedings, and experts to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future. This book covers

Rules of Thumb for Chemical Engineers - Carl Branam
2002
The most complete guide of its

kind, this is the standard handbook for chemical and process engineers. All new material on fluid flow, long pipe, fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids. This substantial addition of material will also include conversion tables and a new appendix, "Shortcut Equipment Design Methods." This convenient volume helps solve field engineering problems with its hundreds of common sense techniques, shortcuts, and calculations. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems.
Energy Progress - 1986

Reservoir Engineering -

Sylvester Okotie 2018-11-22

This book provides a clear and basic understanding of the concept of reservoir engineering to professionals and students in the oil and gas industry. The content contains detailed explanations of key theoretic and mathematical concepts and provides readers with the logical ability to approach the various challenges encountered in daily reservoir/field operations for effective reservoir management. Chapters are fully illustrated and contain numerous calculations involving the estimation of hydrocarbon volume in-place, current and abandonment reserves, aquifer models and properties for a particular reservoir/field, the type of energy in the system and evaluation of the strength of the aquifer if present. The book is written in oil field units with detailed solved examples and exercises to enhance practical application. It is useful as a professional reference and for students who are taking

applied and advanced reservoir engineering courses in reservoir simulation, enhanced oil recovery and well test analysis.

Advanced Natural Gas Engineering -

Xiuli Wang 2013-11-25

Natural gas is playing an increasing role in meeting world energy demands because of its abundance, versatility, and its clean burning nature. As a result, lots of new gas exploration, field development and production activities are under way, especially in places where natural gas until recently was labeled as "stranded". Because a significant portion of natural gas reserves worldwide are located across bodies of water, gas transportation in the form of LNG or CNG becomes an issue as well. Finally natural gas is viewed in comparison to the recently touted alternatives. Therefore, there is a need to have a book covering all the unique aspects and challenges related to natural gas from the upstream to midstream and downstream.

All these new issues have not been addressed in depth in any existing book. To bridge the gap, Xiuli Wang and Michael Economides have written a new book called *Advanced Natural Gas Engineering*. This book will serve as a reference for all engineers and professionals in the energy business. It can also be a textbook for students in petroleum and chemical engineering curricula and in training departments for a large group of companies.

[Piping Calculations Manual](#) - Shashi Menon 2005

This on-the-job resource is packed with all the formulas, calculations, and practical tips necessary to smoothly move gas or liquids through pipes, assess the feasibility of improving existing pipeline performance, or design new systems. Contents: Water Systems Piping * Fire Protection Piping Systems * Steam Systems Piping * Building Services Piping * Oil Systems Piping * Gas Systems Piping * Process Systems Piping * Cryogenic Systems

Piping * Refrigeration Systems
Piping * Hazardous Piping Systems * Slurry and Sludge Systems Piping * Wastewater and Stormwater Piping * Plumbing and Piping Systems * Ash Handling Piping Systems * Compressed Air Piping Systems * Compressed Gases and Vacuum Piping Systems * Fuel Gas Distribution Piping Systems

Process Engineering and Plant Design - Siddhartha Mukherjee 2021-12-28

The book provides the whole horizon of process engineering and plant design from concept phase through the execution to commissioning of the plant in the real practice. Providing a complete industrial perspective, the book • Covers the guidelines and standards followed in the industry and how engineering documents are generated using these standards • Describes Hazardous Area Classification, Relief System Design, Revamp Engineering, Interaction with Other Disciplines, and Pre-commissioning and Commissioning • Contains

several illustrated practical examples, which clarify the fundamentals to a raw chemical engineer • Includes description of a complete chemical project from concept to commissioning Treating the topic from the perspective of an industrial employee with extensive experience in process engineering and plant design, it aims to aid chemical and plant engineers to deal with decision making processes on strategic level, management tasks and leading functions beside the technical know-how. *Heat Exchanger Equipment Field Manual*- Maurice Stewart 2012-06-12

From upstream to downstream, heat exchangers are utilized in every stage of the petroleum value stream. An integral piece of equipment, heat exchangers are among the most confusing and problematic pieces of equipment in petroleum processing operations. This is especially true for engineers just entering the field or seasoned engineers that must

keep up with the latest methods for in-shop and in-service inspection, repair, alteration and re-rating of equipment. The objective of this book is to provide engineers with sufficient information to make better logical choices in designing and operating the system. Heat Exchanger Equipment Field Manual provides an indispensable means for the determination of possible failures and for the recognition of the optimization potential of the respective heat exchanger. Step-by-step procedure on how to design, perform in-shop and in-field inspections and repairs, perform alterations and re-rate equipment Select the correct heat transfer equipment for a particular application Apply heat transfer principles to design, select and specify heat transfer equipment Evaluate the performance of heat transfer equipment and recommend solutions to problems Control schemes for typical heat transfer equipment application