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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.

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Diagnose and Troubleshoot Problems in Chemical Process Equipment with This Updated Classic! Chemical engineers and plant operators can rely on the Third Edition of *A Working Guide to Process Equipment* for the latest diagnostic tips, practical examples, and detailed illustrations for pinpointing trouble and correcting problems in chemical process equipment. This updated classic contains new chapters on Control Valves, Cooling Towers, Waste Heat Boilers, Catalytic Effects, Fundamental Concepts of Process Equipment, and Process Safety. Filled with worked-out calculations, the book examines everything from trays, reboilers, instruments, air coolers, and steam turbines...to fired heaters, refrigeration systems, centrifugal pumps, separators, and compressors. The authors simplify complex issues and explain the technical issues needed to solve all kinds of equipment problems. Comprehensive and clear, the Third Edition of *A Working Guide to Process Equipment* features:

- Guidance on diagnosing and troubleshooting process equipment problems
- Explanations of how theory applies to real-world equipment operations
- Many useful tips, examples, illustrations, and worked-out calculations

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- Pumparounds and Tower Heat Flows
- Condensers and Tower Pressure Control
- Air Coolers
- Deaerators and Steam Systems
- Vacuum Systems
- Steam Turbines
- Surface Condensers
- Shell-and-Tube Heat Exchangers
- Fire Heaters
- Refrigeration Systems
- Centrifugal Pumps
- Separators
- Compressors
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Process Problems

Pipe Flow provides the information required to design and analyze the piping systems needed to support a broad range of industrial

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operations, distribution systems, and power plants. Throughout the book, the authors demonstrate how to accurately predict and manage pressure loss while working with a variety of piping systems and piping components. The book draws together and reviews the growing body of experimental and theoretical research, including important loss coefficient data for a wide selection of piping components.

Experimental test data and published formulas are examined, integrated and organized into broadly applicable equations. The results are also presented in straightforward tables and diagrams. Sample problems and their solution are provided throughout the book, demonstrating how core concepts are applied in practice. In addition, references and further reading sections enable the readers to explore all the topics in greater depth. With its clear explanations, Pipe Flow is recommended as a textbook for engineering students and as a reference for professional engineers who need to design, operate, and troubleshoot piping systems. The book employs the English gravitational system as well as the International System (or SI).

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

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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.

Product Dimensions: 9.7 x 6.6 x 2.1 inches The Handbook has been composed on the basis of processing, systematization, and classification of the results of a great number of investigations published at different time. The essential part of the book is the outcome of investigations carried out by the author. The present edition of this Handbook should assist in increasing the quality and efficiency of the design and usage of industrial power engineering and other constructions and also of the devices and apparatus through which liquids and gases move.

Drawing on his passion, training, and experience, Lieberman presents problems and troubleshooting techniques that are associated with specific processes, systems, and equipment, leading novice and practiced troubleshooters alike to the crux of malfunctions and failures. The fourth edition updates troubleshooting and design techniques, and adds seven new chapters with information on turbines, motors, heat exchangers, and environmentally friendly operations. Norm Lieberman sprinkles his troubleshooting guide with insightful and humorous anecdotes from 45 years in the petrochemical and refining industry. Features: * Nitty-gritty descriptions of common refinery and chemical plant problems and the diagnostic field observations, experiments, and calculations that reveal their origin * Troubleshooting checklists and references following each chapter * Practical advice for optimizing interactions with key plant operations personnel

Providing a wealth of information on pumps and pump systems,

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Pump Characteristics and Applications, Third Edition details how pump equipment is selected, sized, operated, maintained, and repaired. The book identifies the key components of pumps and pump accessories, introduces the basics of pump and system hydraulics as well as more advanced hydraulic topics, and details various pump types, as well as special materials on seals, motors, variable frequency drives, and other pump-related subjects. It uses example problems throughout the text, reinforcing the practical application of the formulae and analytical presentations. It also includes new images highlighting the latest generation of pumps and other components, explores troubleshooting options, and incorporates relevant additions into the existing chapters. What 's New in This Edition: Includes more than 150 full-color images which significantly improve the reader 's ability to understand pump drawings and curves Introduces a new chapter on pump case studies in a format that provides case study background, analysis, solutions, and lessons learned Presents important new updates and additions to other chapters Includes a ten-step procedure for determining total pump head Discusses allowable and preferred operating ranges for centrifugal pumps Provides charts covering maximum and normally attainable pump efficiencies, performance corrections for slurry pumps, and mechanical seal flush plans Pump Characteristics and Applications, Third Edition is appropriate for readers with all levels of technical experience, including engineering and pump industry professionals, pump operators and maintenance technicians, upper-level undergraduate and graduate students in mechanical engineering, and students in engineering technology programs.

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