



Process Plant Equipment: Operation, Control, and Reliability

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“Process Plant Equipment Book is another great publication from Wiley as a reference book for final year students as well as those who will work or are working in chemical production plants and refinery...” -Associate Prof. Dr. Ramli Mat, Deputy Dean (Academic), Faculty of Chemical Engineering, Universiti Teknologi Malaysia

“...give[s] readers access to both fundamental information on process plant equipment and to practical ideas, best practices and experiences of highly successful engineers from around the world... The book is illustrated throughout with numerous black & white photos and diagrams and also contains case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. An extensive list of references enables readers to explore each individual topic in greater depth...” –Stainless Steel World and Valve World, November 2012

Discover how to optimize process plant equipment, from selection to operation to troubleshooting

From energy to pharmaceuticals to food, the world depends on processing plants to manufacture the products that enable people to survive and flourish. With this book as their guide, readers have the information and practical guidelines needed to select, operate, maintain, control, and troubleshoot process plant equipment so that it is efficient, cost-effective, and reliable throughout its lifetime. Following the authors' careful explanations and instructions, readers will find that they are better able to reduce downtime and unscheduled shutdowns, streamline operations, and maximize the service life of processing equipment.

Process Plant Equipment: Operation, Control, and Reliability is divided into three sections:

- **Section One: Process Equipment Operations** covers such key equipment as

valves, pumps, cooling towers, conveyors, and storage tanks

- **Section Two: Process Plant Reliability** sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment, including failure analysis, Fitness-for-Service assessment, engineering economics for chemical processes, and process component function and performance criteria
- **Section Three: Process Measurement, Control, and Modeling** examines flow meters, process control, and process modeling and simulation

Throughout the book, numerous photos and diagrams illustrate the operation and control of key process equipment. There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book. At the end of each chapter, an extensive list of references enables readers to explore each individual topic in greater depth.

In summary, this text offers students, process engineers, and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment, from its initial selection to operations to troubleshooting.

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Process Plant Equipment: Operation, Control, and Reliability From Brand: Wiley Bibliography

- Sales Rank: #1489792 in Books
- Brand: Brand: Wiley
- Published on: 2012-10-02
- Original language: English
- Number of items: 1
- Dimensions: 11.10" h x 1.70" w x 8.50" l, 3.90 pounds
- Binding: Hardcover
- 728 pages

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