



Process Technology Systems

By Michael Speegle

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Process Technology Systems uses a straightforward approach to address the various systems in the processing industry, starting with the most common, such as cooling water, wastewater, and steam, and then progressing to less common concepts such as crystallization and extraction. Each chapter has a small line drawing or P&ID (Piping and Instrumentation Diagram) of the system under discussion and photos of some of the equipment, providing readers with visual references as they go. Each topic is covered in-depth, and features important information on its safety implications, as well as troubleshooting. With completely up-to-date information and technology, this book will help readers grasp the fundamentals of all the main process technology systems, as well as the importance of each system for meeting production schedules and determining quality of products and efficiency.

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Editorial Review

Review

Preface 1. The Concept of a System 2. Overview of Industrial Water Treatment 3. Water Systems I: Process Wastewater, Fire Water and Storm Water 4. Water Systems II: Potable Water, Process Water and Demineralized Water 5. Cooling Water and Cooling Tower System 6. Nitrogen, Plant Air and Instrument Air Systems 7. Natural Gas and Fuel Gas Systems 8. Steam Generation and Boiler Feedwater System 9. Steam Distribution and Condensate Recovery System 10. Electrical System 11. Relief and Flare Systems 12. Refrigeration System 13. Distillation System 14. Combustion Systems 15. Extraction and Filtration Systems 16. Adsorption Systems 17. Absorption and Stripping Systems 18. Reaction Systems 19. Centrifugation Systems 20. Crystallization Systems 21. Filtration Systems 22. Drying Systems 23. Material Storage and Blending Systems 24. Environmental Compliance Systems Glossary Bibliography

About the Author

Michael R. Speegle is currently the Department Chairman of Process Technology, Instrumentation and Electrical Technology at San Jacinto College in Pasadena, Texas. He holds a master's degree in biology from the University of Texas at Arlington, and has worked for 18 years in the petrochemical and refining industry in various roles. Retired from BP-Amoco, Speegle completed three oil and gas internships sponsored by BP to enhance the teaching of oil and gas exploration and production. He is also the author of several books and articles in the field and co-authored two textbooks for analyzer technicians. Speegle is a member of the Gulf Coast Process Technology Association and has received a certificate in oil and gas production from the Center for the Advancement of Process Technology.

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