



Process Technology Plant Operations

By Michael Speegle

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Addressing modern process plant operations in an easy-to-understand format, this comprehensive book reveals the important role technicians play in the function of a business unit. The author thoroughly examines operator responsibilities and functions, from recognizing opportunities that improve process operations, to detecting and removing threats to steady-state operation. The book also systematically explores business fundamentals and the importance of quality, as well as the chemistry and physics of process operations, maintenance duties, material handling, and process troubleshooting techniques. Now thoroughly expanded and updated, the Second Edition of this trusted guide includes new chapters on jobs in process technology, environmental compliance, emergency response, and instrumentation. With numerous new and revised tables and photos, as well as additional learning resources to promote Internet research and critical thinking, the book is an even more useful and effective resource for current and future process plant technicians.

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Editorial Review

Review

Preface. 1. Process Technology Today. 2. Jobs in Process Technology. 3. John's Twelve-Hour Shift. 4. Safety. 5. Environmental Compliance and Title V. 6. Emergency Response Teams. 7. Process Physics for Operators. 8. Quality for Operators. 9. Economics for Operators. 10. Communication for Operators. 11. Instrumentation. 12. Routine Technician Duties. 13. Process Samples and common Analytical Tests. 14. Operator Maintenance Duties. 15. Material Handling of Bulk Liquids. 16. Material Handling of Bulk Solids. 17. Material Handling: Oil Movement and Storage. 18. Process Unit Shutdown. 19. Process Unit Turnaround. 20. Process Unit Startup. 21. Abnormal Situations. 22. Process Troubleshooting. Glossary.

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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