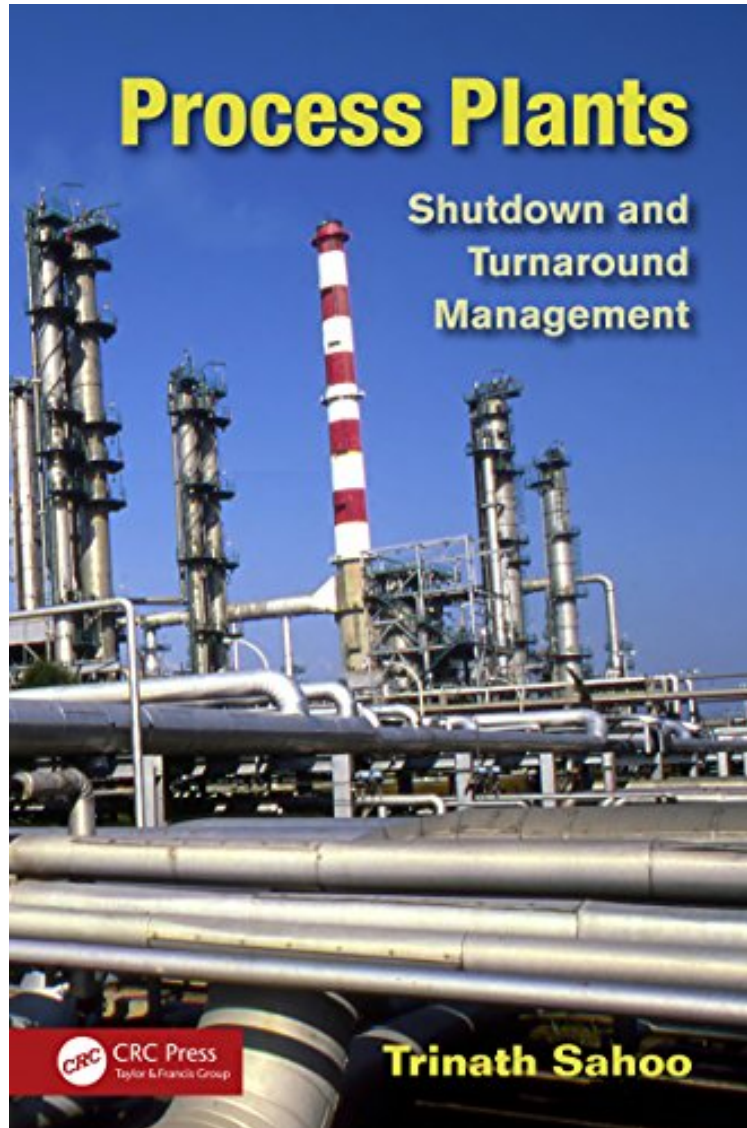


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Process Plants: Shutdown and Turnaround Management

Trinath Sahoo

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In the process industry, shutdown and turnaround costs are responsible for an excessive amount of maintenance expenses. *Process Plants: Shutdown and Turnaround Management* explores various types of shutdowns, presents recommendations for better management, and offers feasible solutions to help reduce overheads. Because turnaround management is the largest maintenance activity, plant turnaround is the focal point of this text. The book details a plan to lengthen the interval between turnarounds, and curtail costs in process production management by at least 30 percent. This practical guidebook provides a thorough study of shutdown management, discusses different types of shutdown and managing events (emergency, unplanned, planned, and turnaround), and covers all aspects of plant turnaround management including startup, shutdown, and maintenance. It describes the five phases of shutdown management—initiating, planning, executing, controlling, and closing. It contains specific principles and precautions for successful shutdown planning, and highlights many aspects including turnaround philosophy, planning and scheduling, estimation, contractor management, execution, safety management, managing human resources, and post shut down review. *Process Plants: Shutdown and Turnaround Management* also includes topical information that readers can successfully apply to future shutdown projects. It is suitable for industry professionals and graduate students.

"This book ought to be of value to the professional engineer new to the challenges of a plant turnaround. Scheduled and unscheduled maintenance are major issues for any chemical plant, refinery or installation. The loss of production and consequently loss of revenue needs to be managed as efficiently and as effectively as possible. Correct planning and execution of a turnaround requires considerable effort to ensure efficient return to full operating capacity. This book aims to highlight the main factors that must be taken into consideration from the planning stage through to execution and post shutdown reviews."—Professor Carl J Schaschke, University of Strathclyde, UK

About the Author: Dr. Trinath Sahoo currently serves as senior manager at Indian Oil Corporation Limited (IOCL) and has 20 years of experience in the technical and management fields. His key areas of expertise include project engineering design and implementation, process plant maintenance, and troubleshooting and analysis of rotating equipment. Dr. Sahoo has a thorough knowledge of pump and compressor operation and maintenance; shutdown management, maintenance, and reliability; project and asset management; and advanced maintenance strategies. He has worked as a plant turnaround engineer for various projects and companies and has published papers in various international magazines and conferences.