



Process Plant Safety Systems, Environmental, and Toxic Effect

Jelenka Savkovic-Stevan, Chikezie Nwaoha

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This book provides principles, philosophy, concept, methods, methodology, and frameworks for process safety and reliability, environment protection, and toxic effects analysis of a system. Introductory in nature the book outlines the terminology of process safety, environment, and toxic effects control while providing some philosophy and motivation for becoming familiar with this topic. The book presents the reader with the necessary tools for safety problem solving. As mathematical models of the process may be more easily manipulated than the plants themselves the operation of a plant outside of normal ranges can be simulated to find forbidden areas of operation, or for safety examination.

The book contains six main sections. Because of the importance of failure system analysis, Part 1 of the book presents three key components for specifying a safety problem: fault assessment, qualitative safety model, and diagnosis. Part 2 covers diagnostic system for fault recognition and troubleshooting. Part 3 covers process system safety in process plant design, operation, and control. Part 4 covers integrated engineering safety and economical systems. Part 5 covers process hazard analysis and environment, pollution distribution, and pollution control. Part 6 covers toxic effects analysis.



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