Incidents That Define Process Safety

Description: Apply lessons learned from major process and transportation incidents to improve process safety

This book describes approximately fifty incidents that have had a significant impact on the chemical and refining industries' approaches to modern process safety. Events are described in detail so readers get a fundamental understanding of the root causes, the consequences, the lessons learned, and actions that can prevent a recurrence. There are exhaustive investigative reports about these events; the goal of this reference is to consolidate and archive concise information on representative incidents that are relevant today so readers can apply the resulting safety principles to their current operations. Incidents That Define Process Safety:

Is very easy too read and hard to put down

Includes descriptions of U.S. incidents, such as the Exxon Valdez oil spill; the HF release at Marathon Oil Refinery in Texas City in October 1987; the explosion in an isomerization unit at BP’s Texas City Refinery in March 2005; and more

Covers incidents worldwide, including the Piper Alpha Oil Platform disaster in 1988, the collapse of a furnace stack and multiple fires at the Tupras oil refinery in Turkey after an earthquake, the Bhopal disaster, and more

Incorporates events from other industries that have implications for the chemical industry, such as the NASA Challenger Disaster, Chernobyl, and more

Includes photographs of the incident consequences and references for additional study

Presented to raise process safety awareness, to help readers learn from previous incidents, and to supplement established initiatives and materials, this book is a valuable reference for engineers and technicians involved in the design and operation of chemical and petroleum processing facilities, as well as managers and decision makers in these industries. It is also an enlightening supplement to many chemical engineering courses.

Contents:

Acknowledgements.

Foreword by John Mogford.

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Glossary.

Standards and Regulations Referred to in This Book.

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