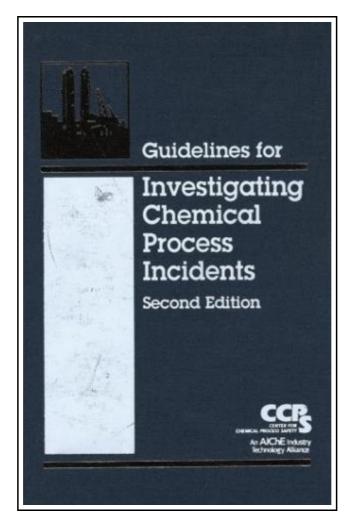
Guidelines for Investigating Chemical Process Incidents



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Reviews

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GUIDELINES FOR INVESTIGATING CHEMICAL PROCESS INCIDENTS



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Wiley-AIChE, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Acknowledgments.1. Introduction.1.1 Building on the Past.1.2 Who Should Read This Book? 1.3 The Guideline's Objectives.1.4 The Continuing Evolution of Incident Investigation.2. Designing an Incident Investigation Management System.2.1 Preplanning Considerations.2.1.1 An Organization's Responsibilities.2.1.2 The Benefit of Management's Commitment.2.1.3 The Role of the Developers.2.1.4 Integration with Other Functions and Teams.2.1.5 Regulatory and Legal Issues.2.2 Typical Management System Topics.2.2.1 Classifying Incidents.2.2.2 Other Options for Establishing Classification Criteria.2.2.3 Specifying Documentation.2.2.4 Describing Team Organization and Functions.2.2.5 Setting Training Requirements.2.2.6 Emphasizing Root Causes.2.2.7 Developing Recommendations.2.2.8 Fostering a Blame-Free Policy.2.2.9 Implementing the Recommendations and Follow-Up Activities.2.2.10 Resuming Normal Operation and Establishing Restart Criteria.2.2.11 Providing a Template for Formal Reports.2.2.12 Review and Approval.2.2.13 Planning for Continuous Improvement.2.3 Implementing the Management System.2.3.1 Initial Implementation-Training.2.3.2 Initial Implementation-Data Management System.References.3. An Overview of Incident Causation Theories.3.1 Stages of a Process-Related Incident.3.1.1 Three Phases of Process-Related Incidents.3.1.2 The Importance of Latent Failures.3.2 Theories of Incident Causation.3.2.1 Domino Theory of Causation.3.2.2 System Theory.3.2.3 Hazard-Barrier-Target Theory.3.3 Investigation's Place in Controlling Risk.3.4 Relationship between Near Misses and Incidents.Endnotes.4. An Overview of Investigation Methodologies.4.1 Historical Approach.4.2 Modern Structured Approach.4.3 Methodologies Used by CCPS Members.4.4 Description of Tools.4.4.1 Brainstorming.4.4.2 Timelines.4.4.3 Sequence Diagrams.4.4.4 Causal Factor Identification.4.4.5 Checklists.4.4.6 Predefined Trees.4.4.7 Team-Developed Logic Trees.4.5 Selecting an Appropriate Methodology. Endnotes. 5. Reporting and Investigating Near Misses.5.1 Defining a Near Miss.5.2 Obstacle to Near Miss Reporting and Recommended Solutions.5.2.1 Fear of Disciplinary Action.5.2.2 Fear of Embarrassment.5.2.3 Lack of Understanding: Near Miss versus Nonincident.5.2.4 Lack of Management Commitment and Folow-through.5.2.5 High Level of Effort to Report and Investigate.5.2.6 Disincentives for Reporting Near Misses.5.2.7 Not Knowing Which Investigation System to Use.5.3 Legal Aspects. Endnotes. 6. The Impact of Human Factors. 6.1 Defining Human Factors.6.2 Human Factors Concepts.6.2.1 Skills-Rules-Knowledge Model.6.2.2 Human Behavior.6.3 Incorporating Human Factors into the Incident Investigation Process.6.3.1 Finding the Causes.6.4 How an...



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