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Nota di contenuto	Making EHS an Integral Part of Process Design; Contents; Preface; Acknowledgments; Acronyms; I Introduction; 1.1. The Need for MERITT; 1.2. What Does MERITT Offer?; 1.3. Whom Is MERITT for?; 1.4. About the Book; 1.4.1. Scope; 1.4.2. Organization; 1.5. The Path Forward; 2 Value and Benefits; 2.1. The Value of MERITT; 2.1.1. Making More Efficient Use of Resources; 2.1.2. Examples of Success and Synergy; 2.2. The Perils of Not Following the MERITT Approach; 2.3. The Business Case for MERITT; 2.3.1. Sustainability; 2.3.2. Meeting New Regulatory Demands 2.4. The Need for Cost and Benefit Metrics to Demonstrate Value2.4.1. WBCSD; 2.4.2. ORC; 2.4.3. Recommendations Regarding Metrics; 3 Life-Cycle Stages; 3.1. Introduction; 3.2. Phases of Development; 3.3. Staging and Control; 3.3.1. Generic Stages; 3.3.2. Resource Allocation and Control; 3.3.3. Interpretation of Stages; 3.4. EHS Constraints and Opportunities; 3.4.1. Stage Constraints; 3.4.2. EHS Opportunities; 3.5. EHS Information Needs; 3.5.1. Requirements; 3.5.2. Anticipating

Information Needs; 3.6. Fast-Track Development; 3.7. Plant Upgrades and Modifications; 3.7.1. Stage Iteration
 3.7.2. Creating MERITT Opportunity
 3.8. References; 4 The MERITT Approach; 4.1. The Foundation of MERITT; 4.2. MERITT Approach Overview; 4.2.1. The Basic MERITT Framework; 4.2.2. The Five "C" Fundamental Principles; 4.2.3. Resource Components; 4.2.4. Implementation Elements; 4.2.5. Overall Format-Fitting It All Together; 4.3. Application of MERITT to Stage-Gate Development Processes; 4.3.1. Early Stages-Concept Initiation (Stage 1) and Process Chemistry (Stage 2); 4.3.2. Process Definition (Stage 3); 4.3.3. Basic Process Engineering (Stage 4); 4.4. Fast Tracking with MERITT
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 4.4.2. Fast Tracking Resource Components; 5 MERITT Tools; 5.1. Introduction; 5.1.1. Need for Tools; 5.1.2. Purpose of Tools; 5.1.3. Types of Tools; 5.1.4. Relationship of Tools and Stages; 5.2. Available Tools; 5.2.1. Nonintegrated Tools; 5.2.2. Integrated Tools; 5.3. Need for Integrated Tools; 5.3.1. Role of MERITT Tools; 5.3.2. Illustrative MERITT Tools; 5.4. Development Needs; 5.5. References; 6 Application of MERITT; 6.1. Introduction; 6.2. Situation; 6.2.1. Waste; 6.2.2. Safety Hazards; 6.2.3. Green Chemistry Issues
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Sommario/riassunto

This book presents an approach-termed MERITT (Maximizing EHS Returns by Integrating Tools and Talents)-for enhancing process development through better integration of environmental, health, and safety evaluations. It draws upon critical components of inherent safety, pollution prevention, green chemistry, and related paradigms through selective adoption and adaptation of their existing tools, skills, and knowledge resources. MERITT offers ways of enhancing existing best practices of organizations that are recognized leaders in developing and conducting coordinated EHS evaluations through incre

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