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Nota di contenuto	Pollution Prevention: Methodology, Technologies and Practices; Dedication; Table of Contents; Foreword; Preface; Acknowledgments; Epigraph; CHAPTER 1: Why Pollution Prevention?; 1.1 Introduction; 1.2 Waste As Pollution; 1.3 How is Pollution Prevention Defined?; 1.4 Drivers for Pollution Prevention; 1.5 Pollution-Prevention Wisdom; 1.5.1 Waste Stream Analysis; 1 5.2 Process Analysis; 1.6 Scope of This Book; Literature Cited; CHAPTER 2: The Path to Pollution Prevention; 2.1 Introduction; 2.2 The Recipe for Success; 2.3 Program Elements; 2.3.1 Chartering Phase Business Leadership Decision to StartEstablishing the Program; Selecting the Waste Streams; Creating an Assessment Team; 2.3.2 Assessment Phase; Collect Data; Set Goals; Define Problem; Generate Options; Screen Options; Evaluate the Screened Options; 2.3.3 Implementation Phase; 2.4 The Incentive for Pollution Prevention; 2.4.1 New End-of-Pipe Treatment; Gas Streams; Wastewater Streams; 2.4.2 Raw-Materials Cost; 2.4.3 Cost of Manufacture; 2.5 Pollution-

Prevention Engineering Technologies and Practices; 2.6 Engineering Evaluation of the Preferred Options; 2.7 Waste Stream and Process Analyses
2.8 Case Studies2.8.1 Program Elements: U.S. EPA and DuPont Chambers Works Waste-Minimization Project; 2.8.2 Incentive for Pollution Prevention-Gas-Flow-Rate Reduction; 2.8.3 Waste Stream Analysis: Nonaqueous Cleaning; 2.8.4 Process Analysis: Replace Solvent with a Process Intermediate, Product, or Feed; Literature Cited; CHAPTER 3: Pollution Prevention Program Development; 3.1 Introduction; 3.2 Regulations; 3.3 A Successful Pollution-Prevention Program; 3.4 Program Elements; 3.5 Chartering Phase; 3.5.1 Business Leadership Decision to Start; 3.5.2 Establishing the Program Convening a Meeting to Roll Out the ProgramAppoint a Team Leader; Establish Metrics; Quickly Define the Initial Economic Incentive for Pollution Prevention; Create Incentives for Pollution Prevention; Involve a Diverse Group of People; 3.5.3 Selecting the Waste Streams; Identify Area Waste Streams; Prioritize Waste Streams; Select the Targeted Waste Streams; 3.5.4 Creating a Core Assessment Team; 3.6 Assessment Phase; 3.6.1 Collect Data; Process Flowsheets with Mass and Energy Balances; Process Chemistry; Regulatory Background; Raw Materials/Production Information and Forecasts
Accounting InformationOther Information; 3.6.2 Set Goals; 3.6.3 Define the Problem; Perform an Area Inspection; Perform Waste-Stream and Process Analyses; 3.6.4 Show Stoppers; 3.6.5 Generate Options; Data Collection and Information Package; Selection of Team Members; Information Analysis; The Brainstorming Session; 3.6.6 Screening the Options; 3.6.7 Evaluate the Screened Options; 3.7 Implementation Phase; 3.7.1 Select Options for Implementation; 3.7.2 Create Preliminary Implementation Plan; 3.7.3 Secure Approval for Implementation and Begin Implementation Projects; 3.7.4 Keep People Involved
3.8 Resources

Sommario/riassunto

As many industries are beginning to learn, pollution prevention technologies offer more than just a way to comply with regulations, or even to "do the right thing." It also makes smart business sense. The authors of this book, both veterans of DuPont's in-house waste reduction team, have put together a "how-to" guide for locating and implementing the best pollution prevention strategies for particular manufacturing processes. The book codifies elements of fundamental pollution prevention knowledge that are "easily understood and broadly applicable," across a wide range of industries. At the he