



Green Engineering: Environmentally Conscious Design of Chemical Processes

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Prentice Hall, 2001. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. About the Authors. Acknowledgments. I. A CHEMICAL ENGINEER'S GUIDE TO ENVIRONMENTAL ISSUES AND REGULATIONS. 1. An Introduction To Environmental Issues. Introduction. The Role of Chemical Processes and Chemical Products. An Overview of Major Environmental Issues. Global Environmental Issues. Air Quality Issues. Water Quality Issues. Ecology. Natural Resources. Waste Flows in the United States. Summary. References. Problems. 2. Risk Concepts. Introduction. Description of Risk. Value of Risk Assessment in the Engineering Profession. Risk-Based Environmental Law. General Overview of Risk Assessment Concepts. Hazard Assessment. Dose-Response. Exposure Assessment. Risk Characterization. Summary. References. Problems. 3. Environmental Law and Regulations: From End-of-Pipe to Pollution Prevention. Introduction. Nine Prominent Federal Environmental Statutes. Evolution of Regulatory and Voluntary Programs: From End-of-Pipe to Pollution Prevention. Pollution Prevention Concepts and Terminology. References. Problems. 4. The Roles and Responsibilities of Chemical Engineers. Introduction. Responsibilities for Chemical Process Safety. Responsibilities for Environmental Protection. Further Reading in Engineering Ethics. References. Problems. II. EVALUATING AND IMPROVING ENVIRONMENTAL PERFORMANCE OF CHEMICAL PROCESSES. 5. Evaluating Environmental Fate: Approaches based on chemical structure. Introduction. Chemical and Physical Property

Reviews

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