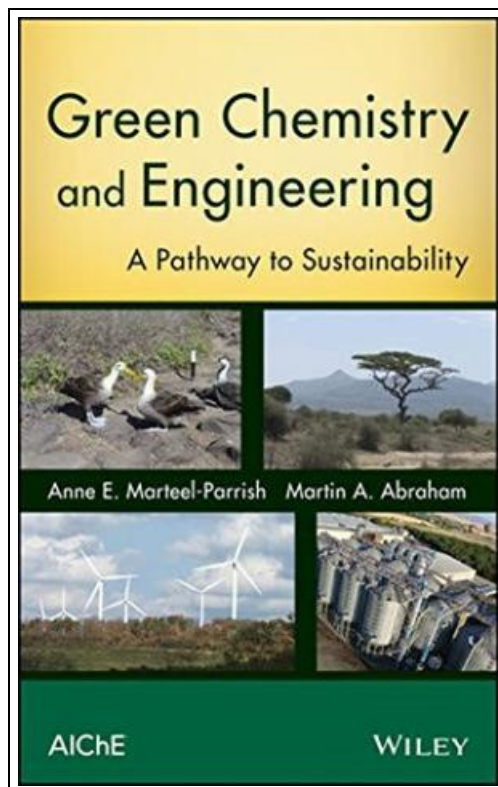


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Condition: New. Publisher/Verlag: Wiley & Sons | A Pathway to Sustainability | Promotes a green approach to chemistry and chemical engineering for a sustainable planet. With this text as their guide, students will gain a new outlook on chemistry and engineering. The text fully covers introductory concepts in general, organic, inorganic, and analytical chemistry as well as biochemistry. At the same time, it integrates such concepts as greenhouse gas potential, alternative and renewable energy, solvent selection and recovery, and ecotoxicity. As a result, students learn how to design chemical products and processes that are sustainable and environmentally friendly. Green Chemistry and Engineering presents the green approach as an essential tool for tackling problems in chemistry. A novel feature of the text is its integration of introductory engineering concepts, making it easier for students to move from fundamental science to applications. Throughout this text, the authors integrate several features to help students understand and apply basic concepts in general chemistry as well as green chemistry, including: Comparisons of the environmental impact of traditional chemistry approaches with green chemistry approaches; Analyses of chemical processes in the context of life-cycle principles, demonstrating how chemistry fits within the complex supply chain; Applications of green chemistry that are relevant to students' lives and professional aspirations; Examples of successful green chemistry endeavors, including Presidential Green Chemistry Challenge winners; Case studies that encourage students to use their critical thinking skills to devise green chemistry solutions. Upon completing this text, students will come to understand that chemistry is not antithetical to sustainability, but rather, with the application of green principles, chemistry is the means to a sustainable planet. | Preface xiii 1 UNDERSTANDING THE ISSUES 11.1 A Brief History of Chemistry 11.1.1 Fermentation: An Ancient Chemical Process 21.1.2 The Advent of Modern Chemistry 21.1.3 Chemistry in the 20th Century: The Growth of Modern Processes 21.1.4 Risks of Chemicals...

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