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Sinopsis

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The global chemical and petroleum industries have always had the challenge of disposing of chemical wastes, by-products, and residuals, but with traditional techniques such as deep well injection and incineration proving flawed, the need for disposal by legal, safe and economically effective means has never been greater. Increasingly, the need to produce without pollution is the preferred model for industry, and the strategy of waste minimization is seen as the best way forward. This is particularly relevant in the petrochemical and chemical industries, where large quantities of hazardous and toxic wastes are produced which can pose formidable disposal problems.

Covering the essentials of treatment, recovery and disposal of waste, as well as the requirements for process design and engineering of equipment and facilities in the chemical and petroleum industries, this book includes chapters on:

- Wastewater Treatment
- Physical Unit Operations
- Chemical Treatment
- Biological Treatment
- Wastewater Treatment in Unconventional Oil and Gas Industries
- Wastewater Sewer Systems
- Sewage Treatment
- Solid Waste Treatment and Disposal

Primarily aimed at researchers and advanced students in chemical, petroleum, and environmental fields as well as those in civil engineering, this book should also provide a unique reference for industry practitioners and anyone interested in chemical and petroleum waste treatment and disposal.