



Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes

Gerardo Ruiz Mercado, Heriberto Cabezas

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Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes is an edited collection of contributions from leaders in their field. It takes a holistic view of sustainability in chemical and process engineering design, and incorporates economic analysis and human dimensions. Ruiz- Mercado and Cabeza have brought to this book their experience of researching sustainable process design and life cycle sustainability evaluation to assist with development in government, industry and academia.

This book takes a practical, step-by-step approach to designing sustainable plants and processes by starting from the foundational chemical engineering fundamentals. This method enables readers to achieve new process design approaches with high influence and less complexity. It will also help you to incorporate sustainability at the early stages of project life, and build up multiple systems level perspectives. Ruiz- Mercado and Cabeza's book is the only book on the market that looks at process sustainability from a chemical engineering fundamentals perspective.

- Improve plants, processes, and products with sustainability in mind; from conceptual design to life cycle assessment
- Illustrates how to avoid retro fitting costs by planning for sustainability concerns at the start of the design process
- Links sustainability to chemical engineering fundamentals
- Incorporates economic analysis and human dimensions for a holistic view of sustainability in chemical and process engineering design

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