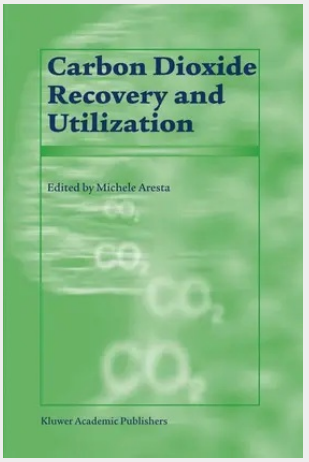
Aresta

Carbon Dioxide Recovery and Utilization



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Carbon Dioxide Recovery and Utilization is a complete and informative resource on the carbon dioxide sources and market at the European Union level, with reference to the world situation. The book covers the following themes:

- Sources of carbon dioxide and their purity,
- Market of carbon dioxide and its uses,
- Separation techniques of carbon dioxide from flue gases,
- Analysis of the potential of each technique and application,
- Basic science and technology of supercritical CO ,
- Reactions in supercritical CO and its use as reactive solvent,
- Utilization of CO in the synthesis of chemicals with low energy input,
- Conversion of CO into fuels: existing techniques,
- Dry reforming of methane,
- Assessment of the use of carbon dioxide for the synthesis of methanol.

This book is unique in providing integrated information and a perspective on innovative technologies for the use of carbon dioxide.
The book is suitable for use as a textbook for courses in chemical engineering and chemistry. It is also of great interest as a general reference for those involved with technologies for avoiding carbon dioxide production and for economists.
This is an invaluable reference for specialists on synthetic chemistry, gas separation, supercritical fluids, carbon dioxide marketing, renewable energy and sustainable development. In addition, it will be useful for those working in the chemical industry and for policy makers for carbon dioxide mitigation, innovative technologies, carbon recycling, and power generation.

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