



# Introduction to Carbon Capture and Sequestration: 1 (The Berkeley Lectures on Energy)

*Berend Smit, Jeffrey A Reimer, Curtis M Oldenburg, Ian C Bourg*

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The aim of the book is to provide an understanding of the current science underpinning Carbon Capture and Sequestration (CCS) and to provide students and interested researchers with sufficient background on the basics of Chemical Engineering, Material Science, and Geology that they can understand the current state of the art of the research in the field of CCS. In addition, the book provides a comprehensive discussion of the impact of CCS on the energy landscape, society, and climate as these topics govern the success of the science being done in this field.

The book is aimed at undergraduate students, graduate students, scientists, and professionals who would like to gain a broad multidisciplinary view of the research that is being carried out to solve one of greatest challenges of our generation.

## Contents:

- Energy and Electricity
- The Atmosphere and Climate Modeling
- The Carbon Cycle
- Introduction to Carbon Capture
- Absorption
- Adsorption
- Membranes
- Introduction to Geological Sequestration
- Fluids and Rocks
- Large-Scale Geological Carbon Sequestration
- Land Use and Geo-Engineering
- List of Symbols
- Credits

**Readership:** Students taking courses on environmental sciences and research level individuals who are interested in environmental issues related to CCS.

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