



# Designing Green Cement Plants

By S.P. Deolalkar

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## Designing Green Cement Plants By S.P. Deolalkar

Cement production is known to be a polluting and energy-intensive industry. Cement plants account for 5 percent of global emissions of carbon dioxide and one of the main causes of global warming. However, cement is literally the glue of progress. **Designing Green Cement Plants** provides the tools and techniques for designing new large cement plants that would promote sustainable growth, preserve natural resources to the maximum possible extent and make least possible additions to the Greenhouse Gases that cause global warming.

Brief and but authoritative, this title embraces new technologies and methods such as Carbon Capture and Sequestration, as well as methods for harnessing renewable energy sources such as wind and solar. The author also discusses the efficient use of energy and materials through the use of recycling. In addition, this book also examines the possibilities of developing green cement substitutes such as Calera, Calix, Novacem, Aether and Geopolymer cements.

- Includes the tools and methods for reducing the emissions of greenhouse Gases
- Explores technologies such as: carbon capture and storage and substitute cements
- Provides essential data to determine the unique factors involved in designing large new green cement plants
- Includes interactive excel spreadsheets
- Methods for performing a cost benefits analysis for the production of green cements as opposed to conventional OPC

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