



Coal-Fired Power Generation Handbook

By James G. Speight

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The most complete and up-to-date handbook on power generation from coal, this book covers all of today's new, cleaner methods for creating electricity from coal, the environmental challenges and concerns involved in its production, and developing technologies. It describes new technologies that could virtually eliminate the sulfur, nitrogen, and mercury pollutants released when coal is burned for electricity generation. In addition, the text details technologies for greenhouse gases capture from coal-fired power plants, as well as for preventing such emissions from contributing to global warming.

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Editorial Review

Review

“This up-to-date book is a mandatory reference for coal geologists, engineers, economists, and environmentalists. Summing Up: Highly recommended. Upper-division undergraduates through professionals/practitioners; two-year technical program students.” (*Choice*, 1 December 2013)

From the Back Cover

The most complete and up-to-date handbook on power generation from coal, this book covers all of today's new, cleaner methods for creating electricity from coal, the environmental challenges and concerns involved in its production, and developing technologies

Coal accounts for approximately one quarter of world energy consumption. Of the coal produced worldwide, approximately 65% is shipped to electricity producers and 33% to industrial consumers, and most of the remainder goes to consumers in the residential and commercial sectors. The total share of total world energy consumption by coal is expected to increase to almost 30% in 2035.

This handbook describes the challenges and steps by which electricity is produced from coal and deals with the challenges for removing the environmental objections to the use of coal in future power plants. New technologies are described that could virtually eliminate the sulfur, nitrogen, and mercury pollutants that are released when coal is burned for electricity generation. In addition, technologies for the capture of greenhouse gases emitted from coal-fired power plants are described and the means of preventing such emissions from contributing to global warming concerns.

Coal-Fired Power Generation Handbook:

- Details the manner in which coal properties can influence electricity production
- Describes the relevant clean coal technologies in an understandable manner
- Presents a realistic overview of the future of electricity generation from coal
- Documents the role of coal in energy security scenarios

About the Author

James G. Speight is a senior fuel consultant and Visiting Professor at the University of Trinidad and Tobago and Adjunct Professor of Chemical and Fuels Engineering at the University of Utah, USA. He is recognized internationally as an expert in the characterization, properties, and processing of conventional and synthetic fuels and has more than 40 years of experience in the process industries. He is the author of numerous books and papers and the editor on the *Journal of Sustainable Energy Engineering*, and he has won numerous awards and distinctions.

Users Review

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