

Coal Fired Generation: A Comprehensive Guide to the Technology and Its Impact on the Environment

Coal-fired power plants are a major source of electricity around the world. They are also a major source of air pollution. This book provides a comprehensive overview of the technology behind coal-fired power plants and its impact on the environment.



Coal-Fired Generation by Bryan T. McNeil

★★★★★ 5 out of 5

Language : English
File size : 1651 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 91 pages



The Basics of Coal Combustion

Coal is a fossil fuel that is burned to produce heat. The heat is then used to turn water into steam, which drives a turbine that generates electricity. The combustion of coal releases a number of pollutants, including carbon dioxide, sulfur dioxide, and nitrogen oxides.

Boiler Design

The boiler is the heart of a coal-fired power plant. It is where the coal is burned and the heat is transferred to water. Boilers are designed to

maximize heat transfer and minimize emissions.

Turbine Design

The turbine is the component of a coal-fired power plant that converts the heat energy of steam into mechanical energy. Turbines are designed to maximize efficiency and reliability.

Emissions Control Technologies

Coal-fired power plants are a major source of air pollution. A number of technologies are available to control emissions, including scrubbers, electrostatic precipitators, and baghouses.

The Environmental Impact of Coal-Fired Power Plants

Coal-fired power plants have a significant impact on the environment. They emit a number of pollutants, including carbon dioxide, sulfur dioxide, and nitrogen oxides. These pollutants can contribute to a number of environmental problems, including climate change, acid rain, and smog.

The Future of Coal-Fired Generation

The future of coal-fired generation is uncertain. Coal is a relatively inexpensive fuel, but it is also a major source of pollution. A number of countries are moving away from coal-fired generation in favor of cleaner energy sources. However, coal is still an important source of electricity in many parts of the world.

Coal-fired generation is a complex and controversial topic. This book provides a comprehensive overview of the technology behind coal-fired power plants and its impact on the environment. It is an essential resource

for anyone interested in understanding the science and engineering behind coal-fired power plants.



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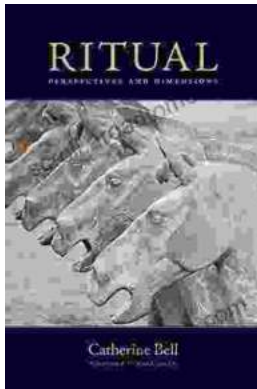
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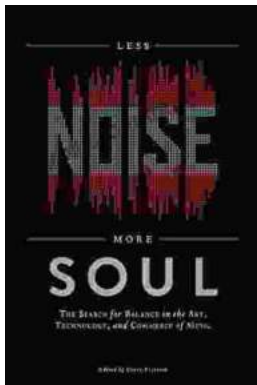
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