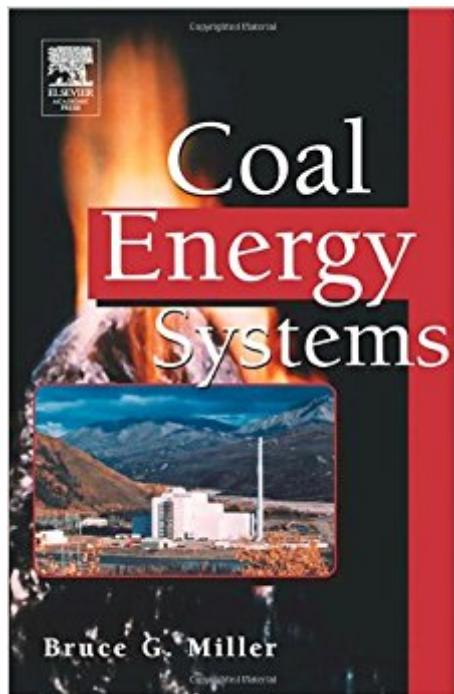


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Coal Energy Systems (Sustainable World)



Synopsis

Coal is currently a major energy source in the United States as well as throughout the world, especially among many developing countries, and will continue to be so for many years. Fossil fuels will continue to be the dominant energy source for fueling the United States economy, with coal playing a major role for decades. Coal provides stability in price and availability, will continue to be a major source of electricity generation, will be the major source of hydrogen for the coming hydrogen economy, and has the potential to become an important source of liquid fuels. Conservation and renewable/sustainable energy are important in the overall energy picture, but will play a lesser role in helping us satisfy our energy demands. This book is a single source covering many coal-related subjects of interest ranging from explaining what coal is, where it is distributed and quantities it can be found in throughout the world, technical and policy issues regarding the use of coal, technologies used and under development for utilizing coal to produce heat, electricity, and chemicals with low environmental impact, vision for utilizing coal well into the 21st century, and the security coal presents. * Presents coal's increasing role in providing energy independence to nations* Covers current energy usage, environmental issues, and coal energy technologies* Provides a comprehensive discussion of technical and policy issues regarding the use of coal

Book Information

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The most comprehensive and up-to-date treatment of coal available.

Coal is the most abundant fossil fuel in the world. There is approximately twice as much recoverable coal in the world as there is oil and natural gas combined. The US has over 200 years of coal reserves, the largest amount in the world. There has been recently new legislation regulating emissions from coal-fired plants. Due to environmental concerns and legislation, coal has transitioned from a "dirty" fuel to one with low environmental impacts. Coal Energy Systems presents the vision for utilizing coal in the 21st century to produce heat, electricity, and chemicals with near-zero emissions. In this context, the author compares coal to other energy sources and discusses the importance of coal as an alternative for nations that are overly dependent on foreign imports for energy. With a historical perspective, this book describes how coal is transitioning from being a 'dirty' fuel to one with low environmental impact, the legislative drivers that have been responsible for reducing the environmental impact of coal usage, and the technologies that are being developed to meet this goal.

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