

The demand for coal use (for electricity generation) and coal products, particularly liquid fuels and chemical feedstocks, is increasing throughout the world. Traditional markets such as North America and Europe are experiencing a steady increase in demand whereas emerging Asian markets, such as India and China, are witnessing a rapid surge in demand for clean liquid fuels. A detailed and comprehensive overview of the chemistry and technology of coal in the twenty-first century, *The Chemistry and Technology of Coal, Third Edition* also covers the relationship of coal industry processes with environmental regulations as well as the effects of combustion products on the atmosphere. Maintaining and enhancing the clarity of presentation that made the previous editions so popular, this book:

- Examines the effects of combustion products on the atmosphere
- Details practical elements of coal evaluation procedures
- Clarifies misconceptions concerning the organic structure of coal
- Discusses the physical, thermal, electrical, and mechanical properties of coal
- Analyzes the development and current status of combustion and gasification techniques

In addition to two new chapters, *Coal Use and the Environment* and *Coal and Energy Security*, much of the material in this edition been rewritten to incorporate the latest developments in the coal industry. Citations from review articles, patents, other books, and technical articles with substantial introductory material are incorporated into the text for further reference. *The Chemistry and Technology of Coal, Third Edition* maintains its initial premise: to introduce the science of coal, beginning with its formation in the ground to the production of a wide variety of products and petrochemical intermediates in the twenty-first century. The book will prove useful for scientists and engineers already engaged in the coal and/or catalyst manufacturing industry looking for a general overview or update on the clean coal technology as well as professional researchers and students in chemistry and engineering.

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