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 Springer Open

# Coal Science Technology

**RD Boyd**



## **Coal Science Technology:**

**Dictionary of Coal Science and Technology** Roy D. Merritt, 1987-01-01 The Relationship of Coal Science to Coal Technology Harold H. Schobert, 1983 **Coal Science** Rita K. Hessley, John W. Reasoner, John T. Riley, 1986 An integrated text presenting both the chemistry and geology of coal Describes the essential aspects of the petrology and petrographic characterization of coal the processes involved in coal conversion and utilization and the testing and analysis of coal Includes the most recent statistics regarding production and utilization as well as the most recent developments in structure reactivity and routine analysis Includes many tables and figures **Coal Science** J.A. Pajares, Juan M.D. Tascón, 1995-08-29 This volume contains papers presented at the 8th International Conference on Coal Science held in Oviedo Spain September 10 15 1995 Volume I contains papers dealing with Fundamentals and General Aspects Combustion and Gasification and Pyrolysis and Carbonization Volume II covers papers discussing Liquefaction and Hydrolysis and Coal and the Environment The scope of topics covered will give the reader a state of the art impression of coal characterization and depolymerization coal derived carbons coal carbonization and liquefaction and the progress towards making coal an environmentally acceptable fuel during its combustion in electricity production The use of modern physicochemical characterization techniques has advanced knowledge of coal composition and structure enormously in the last twenty years and it is hoped that coal will enter into the next millenium as a clean and efficient fuel Coal Science and Technology, 1981 *Coal Science* J. A. Pajares, 1995 Advances in Coal Science and Technology Ezekiel Peterson, 2022-09-27 Coal is a black combustible sedimentary rock It is formed when plants decay into peat It transforms into coal due to pressure and heat of the deep burial over millions of years It is a primary energy source which is used to generate a significant share of world s electricity It is also used in other industries such as iron and steel The extraction of coal from ground is known as coal mining Some of the techniques used for extraction of coal are contour mining surface mining underground mining mountain top removal mining and strip mining Burning of coal has resulted in some negative health and environmental impacts New technologies are being developed to mitigate these effects This book explores all the important aspects of coal science and technology in the present day scenario It presents researches and studies performed by experts across the globe This book is appropriate for students seeking detailed information in this area as well as for experts *New Trends in Coal Science* Yuda Yürüm, 2012-12-06 This volume contains the lectures presented at the Advanced Study Institute on New Trends in Coal Science which was held at Datca HUgla Turkey during August 23 September 4 1987 The book includes 23 chapters which were originally written for the meeting by some of the world s foremost investigators Chemists everywhere are carrying out exciting research that has important implications for the energy and fuels industries and for society in general For the near future coal resources will continue to be of great importance and science and technology of the highest order are needed to extend this fossil energy resource and to utilize it in an economical way that is also environmentally acceptable

These were the main purposes for the organization of this NATO ASI The Institute constituted two working weeks on structure and reactivity of coal and so is the book Through the presentation of many specific recent results on structure and characterization of coal and its products the potential of new instrumental techniques is presented in the first part of the book Finally the reactivity of coals at different conditions both in laboratory and industry is discussed We hope that the volume will be of great use to research workers from academic and industrial background In addition it could serve as a textbook for a graduate course on coal science and technology

**Coal Science and Chemistry** Alexis Volborth,1987

Coal Pyrolysis G.R. Gavalas,1982

**Coal Geology of China** Shifeng Dai,Robert B. Finkelman,2020-04-28

Coal and China to some extent have become synonymous China is by far the largest user of coal in the world In 2016 coal production in China amounted to 3 21 billion tons about half of the total global coal production Coal consumption accounts for more than 65% of primary energy consumption in China The Chinese coal industry greatly contributes to the economic development in China the second largest economy in the world However periodically ubiquitous images of smog blanketing major Chinese cities are viewed all over the world Coal combustion is one of the important contributors to smog which is considered to be a major environmental and human health problem for China and other countries News stories also highlight the periodic coal mine disasters that kill hundreds of Chinese coal miners annually The need to address these and other human health environmental and mine safety issues and to maximize resource recovery and use justifies a vigorous coal research effort This book brings together experts on almost every aspect of coal geology coal production composition and use of the coal and its by products and coal s environmental and human health impacts The chapters in this book were originally published in a special issue of the International Geology Review

*An Introduction to Coal Technology* N. Berkowitz,2012-12-02

*An Introduction to Coal Technology* provides an overview explaining what coal is how it came into being what its principal physical and chemical properties are and how it is handled or processed for particular end uses This book is divided into two parts the first of which focuses on coal science and the second on technology This volume is organized into 15 chapters and begins with a brief account of the origin formation and distribution of coal along with its composition classification and most important properties It then turns to beneficiation and handling combustion and various partial or complete conversion technologies The final chapter deals with some aspects of pollution and pollution control This book provides fairly detailed discussions on coal chemistry including the molecular structure of coal The challenges and limitations of coal technology are also considered This book is intended for scientists and engineers who are active in other fields but who might want to bring coal within the orbit of their interests and to advanced students of chemical and mineral engineering who are contemplating careers in coal related endeavors

The Science and Technology of Coal and Coal Utilization Bernard Cooper,2014-01-15

*International Journal of Coal Science and Technology* ,

**Coal science and technology and related processes 1993**

**: Third International Rolduc Symposium on Coal Science, 9 - 13 May 1993, Rolduc, Netherlands** Freek

Kapteijn,1993 **Advances in Coal Science and Technology, ICCS&T 2011** ,2013 *Coal Science and Technology for the Eighties* Central Fuel Research Institute, **2015 International Conference on Coal Science and Technology and 2015 Australia-China Symposium on Energy** Chun-Zhu Li,Alan Chaffee,2016 **Coal Science and Technology**  
Vladimír Bouška,1981 **Coal Geology and Coal Technology** Colin R. Ward,1984

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