



CHEMISTRY OF COAL

Knowing the Basics

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The Chemistry Of Coal

John Braithwaite Robertson



The Chemistry Of Coal:

The Chemistry of Coal Norbert Berkowitz, 1985 **The Chemistry of Coal** John Braithwaite Robertson, 1919 The Chemistry and Technology of Coal, Second Edition, James G. Speight, 1994-07-07 Thoroughly rewritten and updated to reflect the latest advances in technology and highlighting the environmental aspects now being emphasized within the coal industry this Second Edition of a highly acclaimed reference text provides a comprehensive overview of coal science covering topics ranging from the origins of coal to mining and contemporary uses Maintaining and enhancing the clarity of presentation that made the first edition so popular The Chemistry and Technology of Coal Second Edition Considers the implications of the Clean Air Act 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

The Chemistry of Coal John Braithwaite Robertson, 2015-06-25 Excerpt from The Chemistry of Coal The literature dealing with coal and its chemical properties is of such an extent that an exhaustive record of the facts and theories contained therein would occupy volumes All that is attempted in this monograph is to show the chief methods by which the problems of coal constitution have been attacked and to outline some of the more interesting results obtained It is hoped in this way to indicate to those desirous of carrying out research work on coal and kindred substances lines along which investigation may lead to concrete conclusions An attempt has been made to mention all the more important papers in the bibliography as it was felt that to anyone contemplating serious research work on coals this section should be of value The methods described in the section on analysis are those which I have found in practice to be satisfactory and I hope that this section will prove of value to those who have occasion to examine coals from the analysts point of view About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

The Chemistry and Technology of Coal James G. Speight, 2012-09-04 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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Coal Science Rita K. Hessley, John W. Reasoner, John T. Riley, 1986-07-04 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

Chemistry of Coal Conversion Richard H. Schlosberg, 1985-10-01 The impetus for this book is twofold First in response to the well documented oil shocks of the 1970s there arose a resurgence of research activity in the synthetic fuels area This book attempts to capture some of the leading edge advances which have been made over the past decade in the area of the chemistry of coal conversion The second driving force behind this book is to jog people s memories about the fundamental truths of the energy industry i e there IS a finite amount of liquid hydrocarbons on and under the

earth's surface most of the easy to find produce and use liquid hydrocarbons have been exploited and the real need continues to be for liquid hydrocarbons for use as transportation fuels. The uncertainty is not if synthetic liquids will be needed but rather when they will be needed. The inability to answer that question accurately caused many of the financial and research disruptions following the double shocks of the 1970s. Since future projections can only be based upon the historical record they cannot anticipate major disruptions such as e.g. discovery of huge easily producible oil fields or on the other side global or regional economic disruptions such as warfare. With this level of uncertainty then the second impetus is to point out how much research remains to be done at a time when fiscal support for fossil fuels research in the United States is rapidly spiraling downward.

Coal Science and Chemistry Alexis Volborth, 1987. In this book specialists from a variety of disciplines address the vast and complex subject of the chemistry of coal. The book comprises two parts: the first consists of seven review articles on coal chemistry including NMR, tandem mass spectrometry, physics, liquefaction, catalytic reactions, devolatilization and combustion. Of particular interest in this part is the frequent inclusion in many of the contributions of the authors' own research results hitherto unpublished elsewhere. Good examples of this are the work on magnetic susceptibility of coal, a new branch of coal physics and the article on tandem mass spectrometry, a new branch of analytical chemistry of coal. The second part contains twelve original articles covering characterization and chemistry of coal structure and depolymerization, analytical methods including gas chromatography, mass spectrometry, gas-liquid chromatography, size exclusion chromatography and analysis of oxygen by fast neutron activation. Physical chemistry and physical properties of coal are dealt with in articles on coal slurry electrolysis, oxidation, thermal decomposition, absorption and diffusion.

Chemistry of Coal Utilization National Research Council (U.S.). Committee on Chemical Utilization of Coal, H. H. Lowry, 1963.

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